FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

[The MINING JOURNAL is Registered at the General Post Office as a Nonspaper and for Transmission Abroad.]

No. 2476.-Vol. LIII.

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LONDON, SATURDAY, FEBRUARY 3, 1883.

SIXPENCE

M^{B.} JAMES H. CROFTS, STOCK AND SHARE BROKER AND MINING SHARE DEALER.
No. 1, FINCH LANE, CORNHILL, LONDON, E.C.
ESTABLISHED 1842.

Business transacted in all descriptions of Mining Stocks and Shares British and Foreign), Consols, Banks, Bonds (Foreign and Colonial), Railways, Insurance, Assurance, Telegraph, Transway, Shipping, Canal, Gas, Water, and Dock Shares, and all Miscellaneous Shares.

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Walue.
Every Friday a general and reliable List issued (a copy of which will be forwarded on application), containing closing prices of the week.

MINES INSPECTED.
BANKERS: CITY BANK, LONDON-SOUTH CORNWALL BANK, ST. AUSTELL.
TELEPHO. NO. 1003.

BANKERS: CITY BANK, LONDON—SOUTH CORNWALL BANK, ST. AUSTELL.

TELEPHO. No. 1003.

8PECIAL DEALINGS in the following, or part:—
50 Almada, 15s, 6d.
25 Bedford Uni., £1139
100 Herodsfoot.
25 Bedford Uni., £1139
25 Bratsberg, 38s, 6d.
50 Caliao Bis, £18s.
50 Caliao Can., 7s.
50 Caliao Bis, £18s.
50 Caliao Can., 7s.
50 Caliao

RAILWAYS - SPECIAL BUSINESS .- Fortnightly Accounts opened on receipt of the usual cover.

JAMES H. CROFTS, 1, FINCH LANE, LONDON.

FOREIGN BONDS — SPECIAL RUSINESS. — Fortnightly Accounts opened on receipt of the usual cover.

JAMES H. CROFTS, 1, FINCH LANE, LONDON.

A MERICAN AND CANADIAN STOCKS AND SHARES— SPECIAL BUSINESS.
Fortnightly Accounts opened on receipt of the usual cover.
JAMES H. CROFTS, 1, FINCH LANE, LONDON.

NDIAN GOLD MINES .- SPECIAL BUSINESS in :-

NDIAN GOLD MINES.—SPECIAL BUSINESS in :—
Indian Phœnix.
Devala Moyar.
Devala Central.
Devala Central.
Indian Kingston.
Indian Concolidated,
Indian Genrock.
Indian Genrock.

** Reliable information given on any of the above. A daily price list issued giving closing quotations. SPECIAL BUSINESS in California, La Plata, Rio Tinto, Frontino and Bolivia, Potosi, Chile, Nouvesau Monde, Ruby, Richmond.

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Anglo-American Brush.

Jablochkoff.

Midland Brush.

Blares sold for cash, account, or for forward delivery (one, two, or three months) on deposit of 20 per cent. Jablochkoff.

Devon and Cornwall.

Metropolitan Brush.

Gulcher.

Metropolitan Brush.

Gulcher.

For for forward delivery (one, t nonths) on deposit of 20 per cent.

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BUSINESS transacted in STOCK EXCHANGE SECURITIES
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TRAMWAYS, TELEGRAPHS, and all the LEADING INVESTMENTS.
Accounts opened for the Fortnightly Settlement

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Ms. BUMPUS has SPECIAL BUSINESS in the undermentioned:

100 Almada, 15s. 3d.
25 Great Holway.
25 Bratberg, 39s.
25 Gend Holway.
25 Bratberg, 39s.
26 Carn Camborne, 15s.
26 Carn Camborne, 15s.
27 Octamberg, 28 5s.
28 Octam Camborne, 15s.
29 Octamberg, 28 5s.
20 Carnareon Cop., 28 15s.
20 Carnareon Cop., 28 15s.
20 Calla Gibs, 28s.
20 Calla Gibs, 28s.
21 Ol Indian Consolidated,
25 Franuclicito, 264.
26 Calla Gibs, 28s.
27 Octaments of the Company.
28 Part Copiago, 28 15s.
29 Octaments of the Company.
29 Part Copiago, 28 15s.
20 Calla Gibs, 28s.
20 Ca 100 Chile Gold, 17s.
100 Chile Chile

RRITISH AND FOREIGN MINING OFFICES. MESSES. PETER WATSON AND CO., 18, AUSTIN FRIARS,

OLD BROAD STREET, LONDON, E.C. BANKERS: THE ALLIANCE BANK (Limited). M ESSRS. PETER WATSON AND CO.'S
BRITISH AND FOREIGN MONTHLY MINING NEWS
—STOCK AND SHARE INVESTMENT NOTES—MINES,
MINERALS, AND METAL MARKETS—SHARE LIST.
NO. 849, VOL. XVII., for JANUARY month, is ready, and will

be sent to customers on application. Annual Subscription...... 5s. | Single Copy.....

NOTICE TO SUBSCRIBERS. In February Monthly Circular some important information will be given regarding the present position and future prospects of our Home Dividend and Progressive Tin. Copper, and Lead Mines, and as to the Buying of or Selling Shares in the same.

M R. ALFRED E. COOKE,
DEALER in BRITISH and FOREIGN STOCKS and SHARES
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where prices are not inserted, the market price of the day will be taken, or offers may be made:—

50 Almada Silver, 16s. 45 Bratsberg Cop., 38s. 50 Callao Bis Gold. 50 New West Caradon Gold, 6s. 50 New West Caradon Copper, 6d. 50 Nouveau Monde Gold Copper and Tin, 4s. 9d. 50 North Blue Hills, 2s 3 60 East Rose Lead. 100 E. Blue Hills Tin, 7s 3 60 Cld Shepherds Lead. 100 E. Blue Hills Tin, 7s 3 60 Cld Shepherds Lead. 100 Cipper, 6s. 30 Orita Gold. 20 North Grogwinion 50 Victoria Gold, 20s. 50 Caradon Cop., 25s. 10 Orita Gold. 20 North Grogwinion 50 Victoria Gold, 20s. 50 Cla Fload, 17s. 6d 50 Parys Copper, 6s. 20 W. Grebro Cop., 7s 6d 10 West Builty Tin, 211/6 20 W. Orebro Cop., 25s 60 Cla Flata Lead, 17s. 6d 50 Parys Copper, 6s. 20 W. Folbreen Tin, 15s 6d 10 West Builty Tin, 211/6 50 Cla Fload, 17s. 6d 50 Parys Copper, 6s. 20 W. Folbreen Tin, 15s 6d 10 West Devon Copper. 20 West Devon Cop

INVESTORS who REQUIRE an ACCURATE PRICE LIST should send for that issued by ALFRED E. COOKE, 9, OLD BROAD STREET, LONDON.

PRICES of every description of STOCKS and SHARES are received continuously throughout the day by TELEGRAPH from the STOCK EXCHANGE.

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Has special business in the following for cash or settlement by arrangement;—
Akankoo, 8s. 6d.
Almada, 14s. 6d.
Bratsberg, 38s. 6d.
Californian, 20s.
Californian, 20s.
Caliao Bis, 27s. 6d.
Carn Candborne, 16s. 6d.
Chile Gold, 16s. 6d.
Chile Hills, 7s. 245.
Devon Friendship, 5s. 9
Devala Moyar, 11s. 6d.
Deven Friendship, 5s. 9
Devala Moyar, 11s. 6d.
Chile Hills, 7s. 3d.
Chile Hill

FERDINAND R. KIRK, STOCKBROKER, 5, BIRCHIN-LANE, LONDON, E.C.

Fortnightly Accounts opened in all Stock Exchange Securities on receipt of the usual cover. BANKEES: LONDON AND WESTMINSTER, Lothbury.

MR. E. J. BARTLETT, STOCK AND SHARE DEALER, 30, GREAT ST. HELENS, LONDON, E.O. Selected List of Investments post free on application.

A BBOTT AND CO., STOCK AND SHARE DEALERS, 9, CORNHILL, LONDON, E.C.

9, COINHILL, LONDON, E.O.

MR. W. MARLBOROUGH, STOCK AND SHARE DEALER,
29, BISHOPSGATE STREET, LONDON, E.O. (Established 30 Years).

40 Almada, 15a.
40 Almada, 15a.
40 California Gold, 23a, 9 60 Kapanga, 15a.
50 California Gold, 23a, 9 60 Kapanga, 15a.
50 Corporation of South
Australian Copper,
25 La Flata, 17a. 6d.
50 Corporation of South
Australian Copper,
30 Chill Gold, 18a. 9d.
51 Calino Bis, 21 8a, 9d.
52 Marke Valley, 16a. 6d.
53 Chill Gold, 18a. 9d.
54 Dev. Priendship, 6s.
55 East Rose.
55 East Rose.
50 East Rose.
50 East Caradon, 20a. 6d.
50 Colombian Gold.
50 Corporation of South
Australian Copper,
25 Marke Valley, 16a. 6d.
50 Colombian Gold.
50 Colombian Gold, 22 12 6d.
50 Colombian Gold, 25 1

"DIFFERENTIAL" PUMPING ENGINE. (DAVEY'S PATENT),

DRAINING MINES, WATER SUPPLY OF TOWNS, IRRIGATION, SUPPLYING DOCKS, PUMPING SEWAGE, and GENERAL PUMPING PURPOSES.

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M R. A L F R E D T H O M A S, MINING AGENT, AND STOCK AND SHARE DEALER, 10, COLEMAN STREET, LONDON, E.O.

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Bankers-London and County Bank, Lombard-street, London, E.C.

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ESTABLISHED 1861.
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JOHN B. REYNOLDS, STOCK AND SHARE DEALER
37, WALBROOK, LONDON, B.C.
Established Twenty-tive Years.
BANKERS: LONDON JOINT-STOOK.

WEST KITTY.

In reply to enquiries, this mine is opening up as well as can be desired, and he returns of tin are about 20 tons per month, thus allowing a large margin for ividends.

TREVAUNANCE UNITED. TREVAUNANCE UNITED.

Mr. REYNOLDS calls attention to the official report of this mine in this day's Journal, and is prepared to buy any number of shares at reasonable prices. The mine is exceeding expectations. Buyers can be supplied at moderate rates through the market or by Mr. Reynolds.

Mr. REYNOLDS, at considerable expense to himself, is prepared to advise as to the Purchase or Sale of Mining Shares on the receipt of a fee of 21s. His regular correspondents, however, can be advised gratuitously.

Mr. REYNOLDS refers his readers to his letter on p. 128 in this day's Journal.

G BANVILLE SHARP, STOCK AND SHARE DEALER 32, QUEEN VICTORIA STREET, LONDON, E.C., BANKERS: LONDON AND WESTMINSTER, London, E.C.

MR. ALEXANDER DAVIDSON STOCK AND SHARE DEALER. LEADENHALL HOUSE, 101, LEADENHALL STREET, LONDON, E.O.

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Deals in all descriptions of STOCKS and SHARES at close market prices.

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SPECIAL BUSINESS in West Caradon (cum the new shares, viz., West Gonamena), New West Caradon, New Caradon, Sortridge, and Langlord. WEST GONAMENA shares will be dealt in separately after the 24th inst. The shares in this mine will probably be worth over £5 per share at no very distant date. clients sending orders for West Caradon shares should make special stipula-tions for the new shares to be included in the purchase, to save dispute.

R. W. B. COBB, 29, BISHOPSGATE STREET LONDON, E.C.
Richest silver mine in the world, making over £60,000, per annum clear profit, on a capital of £100,000, TOLIMA SILVER. The £5 share sin the company are certain to rise to about three times the present pricalat least. Produce for November 1½ ton of pure silver, giving a net profit of £5032. WESTERN ANDES also making large profits, and paying good dividends, highly recommended. highly recommended.
Full particulars of both mines, and prices of the shares on application.
BANKERS: ALLIANCE BANK (Limited).

VERY IMPORTANT. EAST WHEAL ROSE - TRESAVEAN MINES

Important SALES of LEAD, BLENDE, and TIN have just been made at these Mines.

Monthly sales will now be made, and the shares on their merits are certain to have an early and a considerable advance. Send for our February Circular, now ready.

ABBOTT, PAGE, AND CO., STOCKBROKERS 42, POULTRY, LONDON, E.C.

HORACE J. TAYLOR, 38, GREAT ST. HELENS, LONDON, E.C., STOCK AND MINING SHARE DEALER.
Offers FOR SALE the undermentioned, all or part, at annexed prices:— Offers FOR SALE the undermentioned, all or part, at annexed prices:—
256 Bwich United, 11s. 100 Langford, 9s. 9d. 50 S. Devon United, 11s 6
100 Cootacovil, 12s. 6d. 100 Mona Consols, 10s. 50 Silver Hill, 10s. 300 New W. Caradon, 8s. 200 West Lisburne, 11s. 200 Devon Friendship, 6s 100 Parys Copper, 5s. 9d. 100 West Devon Con., 7s. 50 East Blue Hills, 5s. 50 Potosi, 11s. 100 West Crebor, 8s. 50 East Craven Moor, 10s 50 Fince of Wales, 7s 6 50 Wineal Crebor, £2½.

BANKERS: CENTRAL BANK OF LONDON (Limited).

MESSRS. PENNINGTON AND CO., STOCK AND SHARE
BROKERS, 13, MOORGATE STREET, LONDON, E.C., have FOR
SALE the following, per share net:—
50 Guinea Gid. Cst., 11s. 40 E. Roman Gravels.
25 Gold Coast, 20s. 50 Goginan, 15s.
25 Callao Bis. 70 So. Devon United.
20 Tamar, 15s. 105 Consolit, Gold, 3s. 9d.
26 Trongoch Lead, 25s. 6 150 Rossa Grande, 2s.
27 Frongoch Lead, 25s. 6 150 Rossa Grande, 2s.
28 Frongoch Lead, 25s. 6 150 Rossa Grande, 2s.
29 Goginan, 15s. 50 Carn Camborne, 15s. 50 Devon Great United offer wanted.
29 Great Wanted.
20 Great Wanted.
20 Great Wanted.
20 Great Cambridge. BANKERS: ALLIANCE (LIMITED).

> JOHN LENN AND CO., STOCK AND SHARE DEALERS,

5. GROCERS' HALL COURT, LONDON E.C.

HOME MINING

WESTERN ANDES.—Net profit for November, £1100. This mine has already returned in dividends about £58,000.

Shares in Home, Foreign, and Colonial mines, bought and sold at net market prices, free of commission.

Purchases for forward delivery at special prices on receipt of deposit of \$10 per cent.

BANKERS: ALLIANCE BANK (Limited).

H. O. M. E. MINING.

IMPORTANT.—The temporary drop in the prices of several leading securities, in consequence of the holiday season, gives investors a rare opportunity of purchases for forward delivery at special prices on receipt of deposit of \$10 per cent. They are certain to have a sharp rise again, probably 50 per cent., in a short time. Send for our circular—"Investmenta"

Meetings of Lublic Companies.

FRONTINO AND BOLIVIA (SOUTH AMERICAN) GOLD

MINING COMPANY.

The annual general meeting of shareholders was held at the Cannon-street Hotel, on Wednesday,

The Hon. F. C. DRUMMOND in the chair.

The annual general meeting of shareholders was held at the Cannon-street Hotel, on Wednesday,

The Hon. F. C. Drummond in the chair.

Mr. J. Jameson Truran (the secretary) read the notice convening the meeting, and the directors' report, embodying the letter of Mr. R. B. White, and the statement of accounts were submitted:

The directors report that the accounts show a credit balance on the six months working of 4345l. 18s. 6d. The expenditure on the mines under the heading "labour, cost and materials," is about 4000l. above that for the six months ending December 1881. The works of development are nearly completed, and the directors have reason to expect that considerable improvement in the profits will take place during the current half-year. It has been the endeavour of the board to restrict present expenditure as much as possible consistent with the full utilisation of the Pocuné water, and the opening up of the Cordold property. The board have had the assurance of Mr. White that the reserves of minerals requisite to give increased returns have already been secured, and that the completion of the stamping power is only requisite to give the yield promised by him. The majority of the board have full confidence in the result of the works designed by Mr. R. B. White. A copy of Mr. White's letter to the directors, on the subject of the working of the mines, is annexed to the report. Since the last meeting of shareholders two dividends of 1s, per share each have been paid—in July and December, 1882. A settlement has been effected with two of the vendors entitled to a portion of the 5000l, purchase-money contingent on dividends, by the payment to them in July last of 1500l in lieu of 3000l, to which they would have been entitled when the contingent claim became payable.

In a long letter on the company's property, Mr. White says:—Although the cost at the mines continues high, yet all the wishes of the shareholders and the orders of the board are being attended to as regards the limitation of our expenditure to th

indigens upon what has been done, and upon the fact that, if due allowance be made for the delays and drawbacks met with in all mining, and especially in mining in an uncivilised country like Colombia, we are steadily nearing the position which the proved value of these mines has led you to look forward to. The CHAIRMAN said: Gentlemen, I regret that it has fallen to my lot to take the chair on this occasion. I will read you a letter that has been received just now from Mr. Foakes, addressed to the secretary:—"Be so good as to inform the board that I have declined to offer myself for re-election at the general meeting of the Frontino and Bolivia Company's shareholders, to be held to-day. The board to offer myself for re-election at the general meeting of the Frontino and Bolivia Company's shareholders, to be held to-day. The board may, as from the receipt of this letter, consider me defunctive efficient. If I attend the meeting to-day it will be as a shareholder only. Yours faithfully (signed), Thomas Ryre Foakes." I have also to the telegram four Mr. Moving the meeting the state of the second of the second of the meeting, as I am not in the habit of taking the chair at large meetings, and I have also to add that I do not hear very distinctly, so that I must ask the indulgence of the meeting, (Cherra). Gentlemen, I will not occupy your time working of the mines. The working during this period of six months hab been wery fully and very abily described by Mr. White in his letter to the directors, which accompanies the report. I will say, however, that having attentively permed all the papers that have come from the mines, and the correspondence with Mr. Franklyn White, which is forwarded monthly to you, I will say for statisfied with what he has done, and with the greatand steady progress which has been made during the six months under review towards the complete establishment of the saveral mines, and I think that the shareholders will be the mines and the constant care he has fully cyrried out the plans which M

were to be proposed ought to have looked into the company's affairs before

who were to be proposed ought to have looked into the company's affairs before they came forward for election.

Mr. Donagan said the new board would have on their shoulders the accounts to Dec. 31 last, and he thought that was quite sufficient for them, and that their time might be more profitably employed in making themselves masters of details in connection with the working of the mine. He should be to have time to consult Mr. White in connection with that. He submitted that if the accounts to June 30 were passed to-day they would leave those to Dec. 31 on the shoulders of the new board.

The Chairman held that the accounts were correct. He denied that there was any mistake in them, or that they were wrong in any way. He did not think it fair that there should be any delay in passing the accounts, and he considered that that would be a great siur on those who had put their names to them. (Hear, hear.)

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The CHREMAN held that the accounts were correct. He denied that there was any mistake in them, or that they were wrong in any way. He did not think it fair that there should be any delay in passing the accounts, and he considered that that would be a great siur on those who had put their names to them. (Hara, hear.)

The Chreman of the construction of the meeting, and lost by a large majority. The construction of the meeting, he did not perest in.

The original resolution was then put and carried.

Mr. Robert Whitre said that in justice to the auditor it was right that he should supplement the Chairman's remarks respecting the examination which they made of the accounts with regard to depreciation by his own explanation. Those amounts which were written off for depreciation by his own explanation. Those amounts which were written off for depreciation by his own explanation, the majority of the control of the

at all.

Mr. Staples said it only affected the percentage of gold per ton.

Mr. Whith added that it would also show advantageously in regard to the cost A SHAKEHOLDER asked why mechanical power was not used in driving the adits, tunnelling, &o. F.—Mr. Whithe replied that the rook ground through which their adits were being driven in both Palmichala and Silencio—the only important works there, was not ground in which they could use rock-drills as it was soft ground. They came every now and then upon hard centres of crystal issed granite, but they met them at intervals, and there was nothing at all to determine their existence, and it was a matter of luck whether they came upon them or not.

determine their existence, and it was a matter of new whether eacy came upon them or not.

Mr. STAPLES asked whether the pyrites had been treated successfully?—Mr. White replied that they had always treated a certain proportion of the pyrites in their mines, and the returns from the pyrites had increased 50 per cent. In the Gedila Mine the re-treatment of the pyrites was now giving almost as much gold as what they extracted from their blanketing, and they had not the opportunity of studying the proper method of treating the pyrites until they had put up their laboratory and assay and smelting office. They were now instituting a series of assays not only upon the pyrites but upon the sands and pyrites, because in the sand which was discharged from the stamping-mill it might happen that the gold would exist solely in the pyrites which was contained in the sand, and that the particles of quartz might not contain any gold at all; or, on the contrary, it might result that there might be gold in both of them. That was a point which had to be determined very carefully if they were going to retreat their material.

the contrary, it might result that there impures a point which had to be determined very carefully if they were going to retreat their material.

Mr. Donagan, Mr. Lowe, and Mr. Harris were then elected to seats at the board, but the nomination of Mr. Sutherland was rejected by the meeting.

Mr. Tilley was re-appointed auditor.

It was resolved that the sum of 57101. 2s. 6d., now appearing in the balance-sheet to June 39, 1882, as reserve fund, be applied to the capital account, and that any further sum which may be received as premium on the unissued shares be applied to the same purpose.

Mr. Hill., at the invitation of the directors, said that he had visited the mines, and was delighted to find the admirable manner in which they were worked. He thought the company possessed a most valuable property, and so much was he impressed with its value that he wrote to his father to buy shares in the company if he were not already a shareholder.

A vote of thanks to the Chairman then terminated the proceedings.

KIMBERLEY NORTH BLOCK DIAMOND MINING COMPANY,

An extraordinary general meeting of shareholders was held on Monday, at St. Michael's Hall, for the purpose of passing a resolution to increase the capital of the company by the sum of 20,000l. divided into 2000 shares of 10l. each, and also to enable the board to purchase the founders' shares, by giving these shares in exchange for the 900 founders's shares,— Colonel Coxon occupied the chair.

Mr. Thomas J. Seel (the secretary) having read the notice convening the meeting.

Mr. Poakes rendered valuable assistance to the company in arranging the setting.

(Hear, hear.) I may say with respect to the Stock Exchange that since the last uncertainty the board have applied to the Committee of the Stock Exchange to place the new issue of shares in the list for quotation with the last of the stock of the last uncertainty of the stock of the stock of the last uncertainty of the stock of the last uncertainty of the stock of the st

the company be, and the same is hereby, increased by the additional sum of 20,000l. divided into 2000 shares of 10l. each."

the company be, and the same is hereby, increased by the additional sum of 20,000%. divided into 2000 shares of 10% each."

The resolution having been seconded, in reply to a SHAREHOLDES, the CHAILMAN said that the founders' shares had always stood in the market at about twice the price of the ordinary shares.

Mr. ATRINSON said the founders' shares had been at 25%, but the ordinary shares had never realised so much as 12%, 10%. After the company had been in existence for some time the ordinary shares thad always been at least twice existence for some time the ordinary shares stood at 10% and the founders' at 20%. It would be found that the founders' shares had always been at least twice the price of the ordinary shares. As regarded their object in doing this they had only one object, and that was the good of the company. They had no interest in the founders, shares. As regarded their object in doing this they had only one object, and that was the good of the company. They had no interest in the founders was small or large it might be permanent as no doubt would be the case when they turned their small block into a large one, but before they could do that they must do away with the founders' shares. He had been a director of this company since it started and was not one of the founders', and the way in which the net profits were to be divided was very poculiar. If they samed 16,000%, net profit the founders' got 22.2.2s., and the ordinary shareholders got 11.6s., and if they carned 24,000%, which was not improbable, though he should like to see it, the founders got 4% per share, and the ordinary shareholders got 11.6s., and the ordinary shareholders 11.9s. The object in bringing about this change was for the advantage of the company and not of the founders. It could easily be understood that the majority of founders' shares were not held to-day by the same popple as originally held them. They were now held by some 43 holder, and none knew the trouble the directors had had in getting those 43 to agre. The Object

PORT PHILLIP AND COLONIAL GOLD MINING COMPANY:

The ordinary general meeting of shareholders was held at the City Terminus Hotel, Cannon-street, on Thursday,

Mr. A. T. Thomson in the chair.

The Secretary read the notice convening the meeting and the minutes of the preceding meeting. The reports and accounts were taken as read.

The Charman, having expressed his regret at the above.

The CHAIRMAN, having expressed his regret at the absence of Mr. Spencer Herapath, owing to indisposition, said that this was the third year when they had to present an unfavourable report. This year the report appeared more unfavourable than it would be on account of the large expenditure incurred in driving the No. 13 level. This expenditure, it might be remembered, was alluded to in the last report, when it was stated that the mine had fallen off in productive year the report appeared more unfavourable than it would be on account of the large expenditure, it might be remembered, was alluded to in the last report, when it was stated that the mine had fallen off in productive quartz in all parts. The directors considered it advisable to drive the No. 13 level with the view of exploring the mine at its lowest depth, and they gave an estimate of the time and cost of driving this level; but, unfortuately, that estimate had been largely exceeded. This could not have been foreseen. They had passed through some very hard limestone, and this had retarded the operation. They had now driven the No. 13 level 798 ft. 6 in. from the shaft. It might be remembered that the extreme distance at which the western lode would be reached was estimated at 1000 ft. If the western lode had maintained its ordinary dip the distance at which it would be met from the shaft was 500 ft.; but between the 10 and 11 ft. levels the lode of the shaft was 100 ft.; but between the 10 and 11 ft. levels the lode of the shaft was 100 ft.; but between the 10 and 11 ft. levels the lode in that case they would reach the lode at a less distance than had been called. Last month they drove 61 ft., because they had got into better ground. It was known, judging from the levels above, that when they got beyond live was shaft with the shaft of the shaft was concluded that the lode had run out. They attributed very little importance to that, because below the No. 32 level had not yet met with twas concluded that the lode had run out. They attributed very little importance to that, because below the No. 13 level (the No. 12 level had never been driven, so that some little time would lively the western lode was reached they would get good quartz. It would be necessary to drive on the course of the lode, and sink a winze from the No. 11 level (the No. 12 level had never been driven, so that some little time would receive the shareholder. The shaft of the preserve of the work had been 2477, 4s. 8d. The loss for the year p

In a wardet environments, yettering in some cases I wat, to the too of old one set the field was a better state of things in the future, and he thought the directors had done very well not to have made a larger loss in the year. (Hear, hear.)

The CHARMAN, in reply to a question, said there was no probability of a call, as the company had over 7000f. in hand, taking Consols at the present price. Mr. Bland would probably retire shortly, and his successor had been selected. There would then be a reduction of 200f. in the salary of the manager. Mr. Bland had been with them since 1852.

The report and accounts were then unanimously adopted.

The retiring directors—Messrs. A. T. Thomson and A. Cobbett—were re-elected, and the auditors, Messrs. H. Ransford and G. Molineux, were re-elected.

Votes of thanks were passed to Mr. Bland, the manager, and to the Chairman and directors, and the meeting then closed.

VICTORIA MINING COMPANY.

The ordinary general meeting of shareholders was held at the

City Terminus Hotel, Cannon-street, on Thursday, Mr. A. T. Thomson in the chair.

The SECRETARY having read the notice convening the meeting, read the minutes of the preceding meeting. The report and account were taken as read.

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read the minutes of the preceding meeting. The report and swere taken as read.

The CHAIRMAN said there was very little to be added to the report. The London and Melbourne Company was now closed, and this company had received its proportion of the 300l. which they expected to receive for the freehold land. The mail which came in on Monday brought a rather better report from Mr. Bland, from which it might be inferred that they were getting into a better description of quarts. It stated that the increase in the tributers' return was due to the excellent yield of the quarts raised by two parties, one of which from 3t bran of quarts obtained a yield of 113 ozs. 7 dwts. of gold, giving an average of 3 ozs. 2 dwts. 23 grs.; and the other from 3t tons of quarts obtained a yield of 44 ozs. 12 dwts., giving an average of 1 oz. 8 dwts. 13 grs. per ton. That looked very hopeful, so far set went. It, at all events, showed that there was some very good quart users which they had been in for two years. The result of the month's working was 560 ozs. 11 dwts. of gold, obtained from 1828 tons of quarts, giving an average of 6 dwts. 3 grs. per ton treated. The Chairman moved the adoption of the report and accounts.—Mr. MacDonnell seconded the motion.

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The CHAIRMAN, in reply to Mr. SCHOFIELD, said they had 6241. 5s. 5d. at the reside of the capital account, and 7871. at the credit of the reserve account.

relik of the capital account, and 7871. at the credit of the reserve account.

The motion was then adopted.

The religing director, Mr. Macdonell, was re-elected, as were also the auditors, gestless. Dongan and Brooks. — The meeting closed with the usual compliment

WHEAL GEORGE LEAD MINING COMPANY.

An extraordinary general meeting of this company was held at the offices, Bishopsgate-street Within, on Friday, Jan. 26 (Mr. THOMAS MIDDLETON in the chair), for the purpose of submitting

THOMAS MIDDLETON in the chair), for the purpose of submitting the following resolutions:

"That with a view of raising further capital for the purpose of meeting the company's liabilities and developing their property, the directors be authorised to issue 1000 shares, part of the existing capital of the company not yet issued, such shares to have a preferential dividend of 12 per cent. per annum over all the other shares of the company."

"That Mr. Thomas Middleton be and he'is hereby declared to have been duly elected a director of the company, and that all acts properly done by him as such director be, and the same are hereby, confirmed."

Prior to the Chairman addressing the meeting, Mr. Rowe, a shareholder, said that he had to make a complaint in reference to the series calling the meeting. He, though not on the register of share-

Prior to the Chairman ducressing the meeting, Mr. Rowk, a sincerbolder, said that he had do make a complaint in reference to the notices calling the meeting. He, though not on the register of share-holders, holding only share warrants to bearer, appeared on a separate list, and consequently he considered that he should have received notice of the present, whist, with respect to the meeting, and it was only within the last four days, and then only established the present, whist, with respect to the meeting held on Jan. 5, he heard nothing whatever about it until he saw a report of the proceedings in the likely fournal, from which he noticed that the concession of Mr. Beckingsale would, find had been present, certainly have voted against the resolution, it would be seen that it would have altered the arrangement. The CHAIRMAN, on behalf of the directors, begged to assure Mr. Rowe that it was through no premeditation on their part that Mr. Rowe had not received the notice. All he could say was that he was most anxious that as many shareholders as possible should be present, and instructions were given that all should be communicated with.

Mr. SMITE (the secretary) stated that all the shareholders on the register, and those whose names he had in a separate book holding shares to bearer, were forwarded notice of the meeting, and with regard to the meeting of Jan. 5, he referred to the letter-book, and read an extract of a letter from himself to Mr. Bowe, wherein it was stated that a special meeting was to be held on the 5th of that month.

those whose names ne had in a separate book holding shares to bearer, were forwarden duce of the meeting, and with regard to the neeting of Jan. 5, he releve wherein it was stated that a special meeting was to be held on the 5th of the month.

The ORASHMAN said he would like to know from Mr. Bowe if that gentleman relevant to the letter referred to. —Mr. Rowz could not say whether he had or not, as it is considered the letter referred to. —Mr. Rowz could not say whether he had or not, as it is considered the letter referred to. —Mr. Rowz could not say whether he had or not, as it is considered to the correspondence between himself and the secretary were in the not, as it is considered to the correspondence between himself and the secretary were in the not, as it is considered to the corresponding to the considered to the meeting. The Chainsan the passing of the resolutions, as they were entirely in the interest of process of the resolutions, as they were entirely in the interest of the subject of the second of the second of the course of the subject of the subje

entient.

cond resolution, in reference to the election of Mr. Middleton as a di-

The second resolution, in reference to the election of Mr. Middleton as a director was then unanimously agreed to.

Mr. INCK (solicitor to the company) said that the meeting, having passed the resolution increasing the capital, it would have to be confirmed, and every starsholder would have to consider the matter for himself. By the Memorandum of Association the capital of the association was fixed at 15,000%, in 15,000 stars of it, each, and it had been held by the court that, unless it was practically the wish of the whole of the shareholders no preference capital could be mised. Those who objected would have to signify in writing, when the notice of the confirming meeting was sent out, that they agreed to the proposed issue. If that was not obtained the directors had still another course open to them, that of borrowing the money on mortgage; but he would certainly recommend them to adopt the proposed issue of preference shares as the most desirable. It was not the custom at companies meetings in London for shareholders to be allowed to attend accompanied by their solicitors, and it was acting under his savice that the directors had declined to admit Mr. Rowe's solicitor to the meeting; but he (Mr. Ince) would be happy to give Mr. Rowe's solicitor every information desired.

aformation desired. A vote of thanks to the Chairman closed the meeting.

ASSHETON UNITED MINING COMPANY.

The ordinary general meeting of shareholders was held at the offices, Queen-street-place, on Wednesday,

Mr. H. D. BROWNE in the chair.

Mr. H. D. BROWNE in the chair.

The Secretary read the notice convening the meeting.

The Charman said—Gentlemen, it will be in the recollection of the proprietors that we reorganised the Assheton and West Assheton Companies, and made them into the Assheton United Company, in companies, and made them into the Assheton United Company, in the hopes that the shareholders would find fresh capital to carry on the mine. We did not think it was worth while, unless we could get such a substantial sum as would really allow us to develope it. We, Mr. Gundry and myself, found the money to carry the thing onduring the liquidation, and we also, when the time came, offered to take out of the new capital which we propose to raise, some 12,000%, two-fifths. I regret to say that the response to our appeal was so very small that it was usrless proceeding with the company, and the consequence is that we have called you together for the purpose of winding it up. I will ask the secretary to read the matement of accounts up to the present time.

**RECKEXENY read the statement of accounts, which showed a balance of liabilities over a see (exclusive of the property, plant, and machinery) of rather

The SECRETARY read the statement of accounts, which showed a liabilities over assets (exclusive of the property, plant, and machinery) of rather over 2000.

The CHAIRMAN: Gentlemen, You have heard the statement read. All the mosey that has kept the thing going has been found by the directors in the hopes that the shareholders would assist. It only remains for me to move "that the accounts as presented be received and adopted."

Mr. W. GUNDRY seconded the motion.

Mr. Rocess said he thought it would only have been fair to the shareholders to have submitted the accounts before the meeting, so that they might have had no apportunity of examining them. As matters stood they were not in a position to say whether they would accept them or not.

Mr. CAMERON SWAY "also thought it would have been better if the accounts had been sent to the shareholders. It seemed to him that the company was very much indebted to the spirit and enterprise of the directors, who had found the money to carry on the mine. He could not, however, gather from the readilabilities. Could not some estimate be given of the value of the property?

Mr. Jount TAYLOR said it would be extremely unwise to put forward any estimate of the value of the mine at the present time. Of course the valuation of Ag. Glowill considered that the shareholders should have a copy of the account before they were asked to adopt them, and Mr. Shearswood spoke to the like effect.

Ag. Swax said his friends and himself would have subscribed towards the

like effect.

Mr. Swax said his friends and himself would have subscribed towards the development of West Assheton, the prospects of which were exceedingly good, but they did not want to take over Assheton as well.

Mr. JUNY TAYLOR remarked that he had the greatest confidence in Assheton in depth, and he strongly urged the amalgamation of the two companies, believing that West Assheton could not be developed to advantage by itself, and he strongly urged the amalgamation of the two companies, believing that West Assheton could not be developed to advantage by itself, as the Carlon of the two companies, because the companies of the control of the two companies, because the control of the country of the statement of accounts. They had merely been septing out the water and doing a little tributing and stoping to as far as the country of the statement of accounts. They could not go on with the development of the sine without funds. He would be happy to assist any of the shareholders who shows to buy the mine and work it with a small capital.

Mr. Gundry added that he would be happy to put another 100%. into it if the mine were bought up and worked.

The Ohalbman, after some further conversation, promised that the accounts should be circulated, together with a statement showing the work done, and the approximate cost of working the mine on a limited scale. If the response of the shareholders is sufficient the resolution passed at the extraordinary meeting will fall through.—The accounts were then adopted.

At the extraordinary meeting which followed, the following resolution was passed (subject to confirmation):—"That the company shall be wound up voluntarily, and that Paul Turquand, of Draper's Gardens, shall be the liquidator in such winding up."

The meeting closed with a vote of thanks to the Chairman and directors.

SOUTH DARREN MINING COMPANY.

The meeting closed with a vote of thanks to the Chairman and directors.

SOUTH DARREN MINING COMPANY.

The ordinary general meeting of shareholders was held at the offices, Austin Friars, on Monday,—Mr. THOMAS BUSH in the chair. The LONDON MANAGER read the notice convening the meeting; the reports of the directors and of Capt. James, and the statement of accounts were taken as read.

The CHAIRMAN said—Gentlemen, I do not know that I have much to add to the information contained in the reports, which have been circulated amongst you. I may say I have had a long talk with Capt. James this morning, and he gives me a very good account of the property. The mine is still improving, and from what he tells me he has sufficient ground open without further exploration to carry us through another two years. We have here a specimen of ore raised from the 129, which was brought up this morning. It is a very rich plece of ore, and it is raised from the new portion of the mine, which has been opened recently—that is, the eastern portion of the mine. We are getting into maiden sole reason why we are not declaring a dividend is the low price of lead; but I hope the time is not far distant when we shall see an improvement in that respect. I will not detain you longer, as dapt. James will be able to give you more information respecting the mine, and point out the different levels better than I could. I move now that "the directors report and accounts and the agent of a larger quantity of ore, and we have got more money for it, although of course the price is much about the same, the increased receipts being entirely owing to the date of the process of the same, the increased receipts being entirely owing to the date of the process of the process of the price of the process of the price is much about the same, the increased receipts being entirely owing to the date of the process of

Mr. SCHOFIELD: Everything except the once expenses, which among quite cover.

Mr. SHEABWOOD: I suppose under present circumstances we must consider that excessively good.

Mr. SCHOFIELD: I expect that we shall make a profit of from 80% to 90% a month for the rest of the year.

Mr. DAVIDSON: What does the balance of assets represent?—Mr. SCHOFIELD: Smelters for ore sold 191%, 13s. 5d., and cash at bankers 1057% I.S. 5d. We have about made up in the past year what we lost in 1869 and 1831. In reply to a further question, he said the average monthly cost was about 550%.

Mr. DAVIDSON: Could you not pay a 1s. dividend, and still have sufficient working capital?—Mr. SCHOFIELD: If you took 452% away from our balance, and you happen to meet with some misfortune, we should have nothing to go on with. We must have working capital. We should be as glad to receive a dividend as any shareholder, for we are the largest holders in the company. The Chairman holds 575 shares—he is the largest holder—and the other members of the board hold a large number of shares. We have here a letter from a holder of 450 shares, congratulating us on the nosition of our affairs. We have the most perfect little mine that I have ever seen in my life, and with a better price for lead it would be one of the best mines in Wales. It is certainly improving in depth.—The CHAIRMAN: The machinery is in first-rate order in every respect. Capt. JAMES: As we get eastward the lode improves, and there is less copper in it. It would be better if the shareholders would allow us to do so to leave the ore in the mine at present. From the plan you will see we have 20 thms. Mr. SCHOFIELD: How far are our ends from the boundary?—Capt. JAMES:

Our 130 fm. level is now touching in upon the ore, and we have 20 fms. more on the lode. The lode is richer there than it has ever been before—richer lead and silver and freer from copper. We have passed through a good deal of ground which would pay well to work if lead went up; but at the present prices it would not pay to r

the 150, and murchison smart by-and-ope will go down into the main part of the ore ground.

Mr. SCHOFIELD: I think we ought to sink Murchison's shaft. What would be the cost of sinking P—Capt. James: We should not want anything extra for the present. The extra cost from the starting of the work would be 301. or 401. per month.

A SHARHOLDER: How long would it take?—Capt. James: About 12 months. The question of sinking Murchison's shaft was, after a short conversation, left to the discretion of the directors.—The report and accounts were then unanimously adopted.

Mr. SHARWOOD PROPOSED the re-election of the retiring director. Mr. John Mr. SHARWOOD PROPOSED the starting director.

mously adopted.

Mr. Bierremwood proposed the re-election of the retiring director, Mr. John Schofield.——Mr. Haynes seconded the proposition, which was carried.

Mr. Davidson proposed the re-election of Mr. Louis M. Bergtheil, the auditor. This proposition was seconded by Mr. Siezawood and adopted.

On the motion of Mr. Siezawood, seconded by Mr. Siezae, a vote of thanks was passed to the Chairman and directors, and the meeting then terminated.

WEST CALLAO GOLD MINING COMPANY.

The statutory meeting of shareholders was held at the street Hotel yesterday,
Sir William Smith (the Chairman) presiding.

Mr. F. J. WARNER (the secretary) read the notice convening the

The CHAIRMAN: I need not tell you, as you all understand, that this is a purely formal meeting, and that we are obliged by Act of Parliament to call a meeting of the shareholders within four months of registration, and what the Legislature in its wisdom meant I do not know. It leit us with nothing to do on this occasion. You will probably like a few remarks as to the present state of the company. We did not complete our allot ment until six weeks ago, so that we have only had six weeks to do everything that we have done. In that time we have engaged our manager and consulting engineer, and under their inspection and supervision we have bought all that is necessary for starting the mines. We have gone on a small scale at first. In the present transitory state of gold reduction appliances we thought all that is necessary for starting the mines. We have gone on a small scale at first. In the present transitory state of gold reduction appliances we thought it better to do as little as we could, and to test as we go, and try the nature of the ore. We can at any time supplement what we are sending out at the very shortest notice. Everything has been got in the most economical manner. I think I can appeal to the shareholder at that end of the room, who accused us of cutting him down tremendously; but I am happy to say he has such faith in the mine that he has applied for 125 shares. The things will be packed np by Monday, and we send them out by Bordeaux in order to save the exorbitant duty of 30 per cent. which is charged upon goods which go cia Trinidad, The manager and consulting engineer and the vendor of the property go out on the 17th of this month, and will probably be there in time to receive the things at the mine. We have made what I believe to be a very advantageous arrangement with the New Caliac Company. Their directors calculate that they have about a thousand tons of gold quartz at grass, which they hope will realise 2 ozs, per ton. We have agreed to put up a 10 ton battery and to work that upon half sh ecting.

The Chairman: I need not tell you, as you all understand, that

prove at the same time our own ore, and as soon as we get the ore out of our shafts by our agreement we can turn to and reduce that. They give us the use of their houses and roads which they have made. You will see they have been a year or two before us in the field—they give us the use of the saw-mill. We help them with the use of the pump until we require it. It has been very equitable. We fought over of it of course; but it has been equitably adjusted on both sides. We have the pleasure of having one of their directors on our board, and he helps to keep the two things together. Their consulting engineer is our consulting engineer, and we are working very amicably together. It will enable us to prove the ore very much earlier than we could possibly otherwise have done. The shares were rather slowly taken up at first; but we are allotting daily, and we have allotted between 500 and 500 to-day. We have over 23,000 shares allotted, and we expect a great many more applications now. In fact, it is anticipated by those who are working the thing that the whole of the share capital will be taken up. I do not know that I have any more remarks to make; but I shall be happy to answer any questions. I may just mention that it is pointed out in the prospectus, but it is well I should allude to it, the accessibility of our field as compared with the old Callao and that group of mines. We do not pay anything like half the expense of transit from the port. We unload at Bolivar, and take it 90 miles across the savannah, and it gives good roads all the year round; ;whereas they have to unship and ship again, and then unship, and earry from their port of entry across the country, and that is nearly double the distance and about double the expense of That is, I think, a very strong point in our undertaking. Mr. Skertchly, our engineer, who surveyed the mine, and upon whose report we have principally undertaken it, is present, and I am sure will be very happy to answer any questions which you may put to him, and he will be much m

nem than what I should. No one rose to ask any questions, and The CHAIRMAN requested the secretary to read the notice calling the extraor-

The CHAIBMAN requested the secretary to read the notice calling the extraordinary meeting.

The SKORKTANY read the notice convening the meeting, which was to consider and, if thought fit, pass the following special resolutions:—That the Articles of Association be altered by adding thereto the following Articles:—Share Warrants: 31A. The company, with respect to fully paid-up shares or stock may issue warrants (hereinafter called share warrants), stating that the bearer is entitled to the shares or stock therein specified, and may provide, by coupons or otherwise, for the payment of future dividends on the shares or stock included in such warrants.—31B. The directors may determine, and from time to time vary, the conditions upon which share warrants shall be issued, and, in particular, upon which a new share warrant or coupon will be issued in the place of one worn out, defaced, lost, or destroyed; upon which the bearer and upon which a share warrant may be surrendered, and the name of the holder entered in the register in respect of the shares or stock therein specified. Subject to such conditions and to these presents the bearer of a hare warrant shall be a member to the full extent. The holder of a share warrant shall be subject to the conditions for the time being in force whether made before of the the issue of such warrant.

The CHAIRMAN: In the circular accompanying this notice we inform you that

apon which a share warrant may be surreadered, and the hame of the holder entered in the register in respect of the shares or stock thren's swenied. Subject to such conditions and to these presents the bearer of "hare we reant shall be subject to the conditions for the action. The bolder of a share we trant shall be subject to the conditions for the me being in force whether made before or "fet the issue of such warrant." The CHAIRMAX: In the circular accompanying this notice we inform you tast the object of this was on behalf of the would-be Fren. In shareholder a led its there is every prospect of a good many shares being taken up in France, not there is every prospect of a good many shares being taken up in France, in there is object to go through the form of registration, and require a hand-to-h and delivery of shares. It was simply to accommodate tiem that we propose had alteration. I beg to move that the Articles 31A and 31b, as just read, be added to the Articles of Association.

The CHAIRMAX, in reply to several questions, said that could, not take effect until the shares were paid up in full. Of course the board could accept pay ment in full. A dividend would be paid on the amount that is paid up and not on the amount called up. At present they had allowed shareholders to pay up in advance when they have so wished it, paying them 5 per cent.

A SHARHOLDER asked what was the advantage of paying up their shares in full if they got nothing in exchange for it?—The CHAIRMAX replied that in about four months time the whole capital will be paid up or called up.: 24,000 shares had been paid up, and they had allotted 500 or 500 that day.

MAN replied in the affirmative. They had allotted 500 or 500 that day.

MAN replied in the affirmative, They had allotted 500 or 500 that day.

MAN replied in the affirmative, They had the paid up to require a subject to the labour question, be had never had any difficulty in getting men. New Callao and twest chain and they had allotted 500 or bout they called the paid to the

pected they would do it. Another great point in their favour was that they had good water-power.

Mr. SEERTCHLY said there was a railway being made in the country which would greatly facilitate transit, and would also benefit the company, inasmuch as they would not have to pay so much for carriage. Labour also he believed he could get very cheap on account of the healthy climate of West Callao.

After some little further discussion the proceedings were brought to a close with a vote of thanks to the Chairman.

PEN-YR-ORSEDD LEAD MINING COMPANY.

An ordinary general meeting of shareholders was held at the company's office, Great St. Helen's, on Wednesday,

Mr. M. J. BARTLETT in the chair.

Mr. JOSEPH WOOD (the secretary) read the notice calling the meeting, and the minutes of the previous meeting, which were confirmed. The balance-sheet and agents' report were taken as read.

The CHAIRMAN: Gentlemen,—In proposing that the balance-sheet, together with the agents' report, both of which have been taken as read, be received, adopted, passed, and allowed. I will make a few comments in regard to the statement that has been in your hands for some few days. The balance-sheet, which was presented to you at read, be received, adopted, passed, and allowed, I will make a few comments in regard to the statement that has been in your hands for some few days. The belance-sheet, which was presented to you at the last annual general meeting, showed liabilities to the amount of 874. 16s. 9d., and, practically speaking, no assests beyond the mine, what ever its value was. Since that time, of course, we have created further capital, and a portion of that has been realised, together with the 1500 surrendered vendor's shares. At the last meeting, though I endeavoured to make a plain statement and simply to dwell upon the positive prespects of the mine, there was great difficulty experienced in inducing our shareholders to come forward and take up any of the shares. However, having always, so to speak, pledged myself to the mine, believing in its ultimate great value, I and some friends came forward and subscribed for by far the largest amount of shares that were alloted on that occasion, with the result that, instead of having a liability of 874. odd at this time, we have actual assets to the amount of 13517. 4s. 1d., with liabilities at the date when the balance-sheet was made up to the extent of only 21. 5s. I may say that since then that small sum has been discharged. I do not think there is any item in the balance-sheet that will require further explanation, but, of course, we are here to answer any questions that may be put. With regard to the general working of our mine, I will now offer a few remarks. At the last meeting, you will recollect, we were operating towards the lode at the 122, but were stopped by a piece of ground running into our sett belonging to the Rhosesmor Company, which we were negociating for, and I fully hoped at that time that we should obtain the grant of it. I have a plan before me which clearly proves the justice of my remarks on that occasion, that, although it was all important for the Pen - yr - Orsedd Company to acquire that small grant, it could be no possible value to the Rhosesmor Company

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1300 ft will be 1% ft. 1300 ft

to com as in the been m yielding shaft, fathou

chally as the lode dips rapidly towards the shaft. To give you some idea of this, if we had struckthe lode at the 122, it would have been in this narrow neck of land, selonging to the Rhoesmor Company. At the 150 it would have been quite 30, if not 40 yards in our own boundary, but at the 161 is expect we shall find either the lode in the shaft, or else within a yard or two of us. Mr. Prince, in his roort, stated that we were enabled to sink il yards, and, of course, we expected every day to get into what we term the rich or productive bed of ground. It was just blast, which went through into soft ground, and tapped the three measures, and the shall have been quite and the state blast, which went through into soft ground, and tapped the three measures, since hindered us, after a certain time, that the water would have subsided, especially as the tunnel was drawing nearer to us every day. However, we found that the water did not recedue; on the contrary, in consequence of the wet weather which we have had during the last few months, the water further rose in the shaft. It was thought not advisable by the directors to work either at the 122 or at the cross-cut—in fact, we thought for best bands our resources, and wait until the Haikin Tunnel had completely drained us, whin I sufference to the prospect of our complete drainage at an early date, I will read you a letter received from our manager, Mr. Prince, this morning. He says:—

"We have been visited, in common with other places, with heavy storms of wind and rain, and all through this unprecedentedly wet season the heaviest fail of rain took place during the last two days. All the rivers have overflowed their banks, but the effect on the water at Pen, "Crossed, the fail in Tunnel is now driven \$50 yards from the South Pant-y-go shaft. The distance between this shaft and the Rhoesemor engine shaft is 500 yards. The Westminster lode runs between the two, and at the 140 yard level would be 110 yards north of the Rhoesemor shaft, so that, allowing for the underlay

is' report.

BLACKETT: How long will this 1350l, last P——The CHAIRMAN: We come the state of the not put more than 12 men into the shaft at once. That would cost us 1001, per month if we were to confine our operations to sinking the shaft only.—Mr. BLACKETT: When do the directors expect that the draining will take place?—The OHAIRMAN; It cannot be delayed longer than six weeks.—A SHARE-HOLDER: How much of the 13504, is actual cash?—The ULIARMAN: The whole of it nearly.—Mr. BLACKETT then seconded the motion, which was carried then the control of the 1504.

EAST ROMAN GRAVELS LEAD MINING COMPANY.

An extraordinary general meeting of shareholders was held at the company's offices, Austin Friars, yesterday, for the purpose of considering the present position of the company,

Mr. E. EDWARDS presided.

The SECRETARY read the notice convening the meeting, after which the following report from Capt. Arthur Waters, the manager

The SECRETARY read the notice convening the meeting, after which the following report from Capt. Arthur Waters, the manager of the mine, was read:

Fieb. 1.—The 109 south is driven beyond the shaft, and cut 33½ fms., lode throughout varying in width from 2 ft. to 6 ft., and worth on the average ½ ton of lead ore and ½ ton of blende per fathom. The last 7 to 8 fms. driven shows two divisions of lode, worth in places 20 and 30 cwts. of lead ore, and 1 ton to 30 cwts. of blende per fathom. The lode in present south end is 4 ft. wide, worth 1 ton of lead ore and ½ ton of blende per fathom, and letting out a strong feed water. This point is now about 5 to 5 fms. from being under Crawshay's winze, which is sunk 5 fms. below the 97, at the junction of the lode, With this winze through (and the 109 would be up to it in a month from now) the whole of the lode, from winze north to shaft, would pay for stoping. The 109, going north-west (at a point 8 fms. from the said south end), on a lode 5 to 6 it. wide, which is making a way behind the main level, is worth 1 ton of lead ore and stones of blende per fathom. From all we can see, this lode may be standing to the west of the 97, 86, and 75 fm. levels, and driving north-west, as we are at present, will be the key to future operations in regard to proving the ground in that direction. In Roman Gravels there is a lode seen parallel to and standing to the south of East Roman's main lode, and this may have formed a junction with the above in the before-mentioned 109 fm. end in the latter mine. I have been officially informed that the Roman Gravels directors refuse to comply with our request requesting an extension of the boundary borthwards on the counter, or main, lode; and, although this may interfere with an immediate success at East Roman's, nevertheless, by sinking boundary shaft continuously for, say, 25 to 30 fms. in two lifts, all the runs of ore which the 20 fms. of new ground refused to us are known/to-contain, will dip from Roman Gravels settinto our sett, and we sh

a matter of certainty. Ore sale of 15 tons of 16 tons o

share held in the last-mentioned company, and any such shares as shall not be accepted by any such shareholder as aforesaid, shall be retained by the directors of the said new company, together with the remaining shares to make up 30,000, to be dealt with as capital of the said new company, as they, the said directors, shall deem expedient."

of the said new company, to be dealt with as capital of the said new company, whall deem expedient?

The resolution was seconded and carried.

Mr. Bush said he thought it a great pity the shareholders did not respond to the applications to subscribe the debentures, for he thought there could be no doubt they had a very good property, which would now be lost to them. He had been a shareholder in the mine since 1872, and if any other company was formed he should be very glad to take some shares in it.

The CHAIRMAN said he quite agreed with Mr. Bush. He always had great faith in this mine. It was a great pity the shareholders did not come forward, and rescue this preperty from being lost. Here they were to-day without a single response.

and rescue this preperty from being lost. Here they were to-day without a single response.

Mr. Bush said they had laid out a considerable sum in machinery, in order to develope the mine. They had laid out 80%, he might say, lately, and they had got everything into complete order. It was true the price of lead was a great drawback, but he thought it was a great mistake on the part of the shareholders in not coming forward. Unless they did come forward and a new company was formed, they would lose their capital. He was over at the mine in the summer, and was very pleased to see the improvements that were being made—the alterations in the pumping machinery, and so on.

A vote of thanks to the Chairman terminated the proceedings.

PROVINCIAL STOCK AND SHARE MARKETS.

PROVINCIAL STOCK AND SHARE MARKETS.

CORNISH MINE SHARE MARKET.—Mr. S. J. DAVEY, mine share-dealer, Redruth (Feb. 1), writes:—Our market has been flat through-out this week, and prices have declined. Rumours that a heavy premium will be charged for Dolcoath new lease caused a semi-panic in these shares, and they fell 4. Carn Brea have fallen \$\frac{3}{4}\$, Cook's Kitchen 1, East Pool 1, Tincroft 1, and West Kitty 1. To-day market is inactive with sellers of most shares. Closing quotations herewith:—Blue Hills, \$\frac{3}{4}\$ to \$\frac{7}{4}\$; Gook's Kitchen, \$\frac{3}{4}\$ to 5 Dolcoath, \$\frac{2}{4}\$ to \$\frac{3}{4}\$; East Pool, \$\frac{4}{9}\$ to \$\frac{5}{4}\$; East Dolcoath, \$\frac{2}{4}\$ till; \$\frac{1}{4}\$ to \$\frac{1}{4}\$; East Blue Hills, \$\frac{3}{4}\$ to \$\frac{1}{4}\$; East Pool, \$\frac{4}{9}\$ to \$\frac{5}{4}\$; East New Kitty, \$\frac{1}{4}\$; Cast Blue Hills, \$\frac{1}{4}\$ to \$\frac{1}{4}\$; Penhalls, \$\frac{1}{4}\$ to \$\frac{1}{4}\$; Penhalls, \$\frac{1}{4}\$ to \$\frac{1}{4}\$; South Tolcarne \$\frac{1}{4}\$ to \$\frac{1}{4}\$; South Wheal Frances, \$\frac{1}{4}\$ to \$\frac{1}{4}\$; West Edity, \$\frac{1}{4}\$ to \$\frac{1}{4}\$; West Follows, \$\frac{1}{4}\$ to \$\frac{1}{4}\$; West Edsen, \$\frac{1}{4}\$ to \$\frac{1}{4}\$; West Follows, \$\frac{1}{4}\$ to \$\frac{1}{4}\$; Wheal Basset, \$\frac{1}{4}\$ to \$\frac{1}{4}\$; Wheal Grenville, \$\frac{1}{4}\$ to \$\frac{1}{4}\$; Wheal Frances, \$\frac{1}{4}\$ to \$\frac{1}{4}\$; Wheal Sasset, \$\frac{1}{4}\$ to \$\frac{1}{4}\$; West Follows, \$\frac{1}{4}\$ to \$\frac{1}{4}\$; West Edsen, \$\frac{1}{4}\$ to \$\frac{1}{4}\$; West Follows, \$\frac{1}{4}\$ to \$\frac{1}{4}\$; Wheal Lasset, \$\frac{1}{4}\$ to \$\frac

Uny, 4% to 5; Wheal Cevor, 7 to 4%; Wheal Kitty, 1% to 1½; Wheal Uny, 4% to 5; Wheal Ooates, 3¢ to 5%.

— Measrs. ABBOTT and WICKETT, stock and share brokers, Redruth (Feb. 1) The market has been very duil during the past week, and nearly all shares are lower. Dolcoaths have been pressed for sale, and close at a reduction of 5. Subjoined are the closing quotations:—Blue Hills, 1 to 1½; Camborne Vean, ½ to ½; Carn Brea, 7 to 8; Cook's Kitchen, 34 to 3½; Alew Oook's Kitchen, 5 to 6: New Kitty, 2 to 2½; New Trumpet, 1 to 1½; Old Gunnislake, ½ to 5½; Pedn-an-drea, 2½ to 2½; South Condurrow, 3½ to 3½; South Orofty, 10½ to 10½; South Frances, 7 to 7½; Tincroft, 6 to 6½; West Masset, 5 to 6½; West Kitty, 11 to 12; West Peevor, 6 to 7; West Frances, 6 to 7; West Tolgus, 15 to 17; West Seton, 16 to 18; Wheal Agar, 16½ to 16; Wheal Basset, 7 to 7½; Wheal Grenville, 7 to 7½; Wheal Kitty, 1½ to 2; Wheal Peevor, 4 to 4½; Wheal Uny, 4½ to 5; East Uny, ½ to 1; Penhalls, 4 to 4½.

Wheat Basset, 7 to 7½; Wheat Grenville, 7 to 7½; Wheat Kitty, 1½ to 15; Wheat Peevor, 4 to 4½; Wheat Grenville, 7 to 7½; Wheat Kitty, 1½ to 1; Penhalls, ½ to ¾.

— Mr. J. H. REYNOLDS, stock and share broker, Redruth (Feb. 1), writes:—The market for the past week has beenfull, and prices for all stock lower. Dolocoths, on the rumour of the lord of the mine intending to inflict a money payment for the grant of anew lease have receded 3½ per share and close at quotations. Subjoined are the closing quotations:—Blue Hills, ½ to 1; Carn Brea, 7 to 7½; Cook's Kitchen, 35 to 36; Dolocoth, 62 to 62½; East Pool, 49½ to 50; East Blue Hills, 5s. to 7s. 6d.; Gunnislake (Clitters) 2½ to 2½; Sullifreth, 3 to 3½; Mellanear, 4 to 4½; New Cook's Kitchen, 5½ to 6; New Kitty, 2 to 2½; Penhalls, ¾ to ¾; Phonix, 2½ to 2½; South Orolty, 10 to 10½; South Frances, 7½ to 7½; South Tolocarne, 4 to 5; Thicroft, 6 to 6½; Tegembo, 3 to 3½; West Basset, 6½ to 6½; West Frances, 6½ to 7½; West Foldice, 1 to 1½; West Ston, 17 to 19; West Tologus, 14 to 16; Wheal Agar, 16½ to 16½; Wheal Basset, 7½ to 5½ west Tolgus, 14 to 16; Wheal Hony and Trelawny, 2 to 2½; Wheal Comford, 1½ to 1½; Wheal Kitty, (8t. Agnes), 1½ to 1½; Wheal Prussia, 1 to 1½; Wheal Juny, 4½ to 5; Wheal Heny and Trelawny, 2 to 2½; Wheal Comford, 1½ to 1½; Wheal Peevor, 3½ to 4; East Uny, ½ to 1.

— Mr. M. W. BAWDEN, Liskeard (Feb. 1), writes:—The mining market shows no perceptible change of improvement, this amount of business transactions are exceedingly limited, and prices mostly nominal. At West Mary Anneeting held on Tuesday last a call of 5s, per 3000th share was made. Subjoined are the closing quotations:—Bedford United, 13 to 1½; Close Mrag, 3 to 34; Tolocardon, ½ to 1½; Close Mrag, 3 to 34; Tolocardon, 3 to 1½; Close Mrag, 3 to 34; Tolocardon, 3 to 1½; Close Mrag, 4 to 3; West Mrag, 4 to 3; West Closens, 4 to 3; Subth Orolty, 9½ to 10; South Devon United, ½ to ½; Subth Orolty, 9½ to 10; South Devon United, ½ to 1½; West Prances, 6½ to 7; West Basset, 6½ to 7; West Basset,

ville, 7½ to 7½; Wheal Ritty, 1½ to 1½; Wheal Peevor, 3½ to 4; Wheal Uny, 4½ to 4½.

MANCHESTER.—Messrs. Joseph R. and W. P. Baines, share-brokers, Queen's Chambers, Market-street (Feb. 1), write:—A moderate amount of general business is reported in miscellaneous share investments for the past week, prices realised exhibiting very small, if any, alteration from those recently obtained. No single class shows any marked activity, and beyond a general firmness in quotations for corporation stocks, &c., and similar steady investments, prices are not moved distinctly in either direction. British rails have had an irregular market, owing to dividend rumours and announcements being contradictory and to the influence of traffic returns. In foreign rails Mexicans have had a steady and decided advance, the rise on the week amounting to between 9 and 10 per cent. Foreign funds unsettled and sluggish, French politics accounting in some measure for the unsteadiness. Egyptian Unified are ½ lower; but Spanish 4 per cent. show a rise of ½ to ½.

Banks are fairly active, producing more than a proportion of the week's miscellaneous business; but changes in quotations show a little ease in this market. Manchester and County recard a rise of ½, and with the exception of a similar davance on sellers' price of Lancashire and Yorkshire, this is the only upward movement. The adverse changes are very slight, however—Liverpool Commercial, ½; Union of Manchester, ½; and Consolidated, ½, lower; and Manchester and Liverpool District, buyers ½ down.

INSUBANCE still very slow in dealings. Quotations show a few alterations, which are pretty evenly balanced between the higher and lower. Sellers have revised their demands in the case of Manchester Fire and Equitable Fire, the former being put ½ up and the latter a similar fraction down. Actual changes are—Higher: Liverpool and London and Globe, ½; Royal Liverpool, ½; British and Foreign Marine, ½; Manchester Underwriters, ½; and Maritime, ½; — Lower: Commercial Union, ½ to 1; Reliance Marine,

The Grant abscriptions to make up the 500%, of debentures, which would render it unnecessary to proceed with the resolutions?—The SECRETARY replied that he had not had any further response.

The CHAIRMAN said that two circulars had been issued since their last meeting to the shareholders, making four in all, besides letters written to some of the shareholders, making four in all, besides letters written to some of the shareholders, making four in all, besides letters written to some of the shareholders, making four in all, besides letters written to some of the shareholders, making four in all, besides letters written to some of the shareholders, making four in all, besides letters written to some of the shareholders, and beyond what was subscribed on the second application out of the four or five there had been no response whatever. Mr. Murchison had also made a personal application to creditors in Shrewsbury and shareholders had been no response whatever. Mr. Murchison had also made a personal application to creditors in Shrewsbury and shareholders letter of the four or five there had been no response whatever. Mr. Murchison had also the responsive of the shareholders were concerned. The shareholders were concerned. The shareholders were concerned to the shareholders were concerned. The shareholders were concerned to the shareholders were concerned to the shareholders were concerned to the shareholders were concerned. The shareholders were concerned to the sha

per annum, and as 7% was expected, price of the stock fell rapidly, and the whole market was advisedly influenced. London and Midlands being especially affected. Brighton, A's, have again recovered most of their decline, and close good at 118% to 118%. The North Stafford dividend of 3%, against 3%, was favourable surprise, and their stock rose to 85%, but best figures are not maintained. Taken all round the rest are steady. Canadians are irregular, the Graed Trunk traffic not being considered satisfactory, although the cause is a "susy block;" their price has declined. Great Westerns are well sustained, and round an advance of %. Americans have gone sluggish again, and most descriptions are weaker, Oho Mortgage Bonds being an exception, the 2nd and 3streen the supplied of the stock of the supplied of th

SCOTCH MINING AND INDUSTRIAL COMPANIES SHARE MARKETS.

STIRLING .- Mr. J. GRANT MACLEAN, sharebroker and ironbroker (Feb. 1), writes:—During the past week the market has been quiet, and prices are generally inclined to improve, owing to the favourable accounts of trade and the easier tendency of the money market. Although trade is quiet credit is generally satisfactory, and as the time for the usual spring activity draws near business will likely get

able accounts of trade and the easier tendency of the money market. Although trade is quiet credit is generally satisfactory, and as the time for the usual spring activity draws near business will likely get brisker.

In shares of coal, iron, and steel companies there is no particular change to notice. In the Bootch pig-iron market the price of warrants has declined from 48s. 3d. to 47s. 5½d. Business is quiet both at home and abroad, although the prospects are by no means bad, and the present price a tempting one for investors; purchases are not freely made. This inactivity will likely go away before long, and in the meantime advantage should be taken of the dull markets by purchasers. Alltami shares are at 20s. to 30s.; ditto, Bonds, 7 to 7½; Chillington Iron, 35s. to 40s.; Chapel House Colliery, 7s. 5d. to 12s. 6d.; Omoa and Cleland, 20s. to 22s.; and West Cumberland, 13 to 14.

In shares of foreign copper and lead concerns there has been a fair amount of business done. Tharis improved at one time to 35½, but have since declined to 32½G. Panulcillos are steady owing to their report for the last six monthashowing agreet profit. Australian are at 27s. 6d. to 32s. 6d.; Bratsberg, 35s. to 40s.; Canadian, 20s. to 21s.; Pierrefitte Ordinary, 15s.; Sentein, 10s. to 15s.; and Soubach and Catir Alan, 15s. to 20s.

In shares of home mines business continues dull. Glasgow Caradons remain at 14s. to 15s.; their annual report just issued, although it shows a loss of 122, on the year's working, is a considerable improvement on the previous year, and this improvement is expected to continue. The amount at debit of profit and loss is now 438t. Bodidris are at is. 3d.; Caravarvonshire Great Consols, 15s. to 20s.; Devon Friendship, 5s. 6d. to 6s. 6d.; East Roman Gravels, 3s. 6d.; East Wheal Woose, 18s. 9d. to 21s. 3d.; East Blue Hills, 7s. 6d. to 10s.; Grogwinion, 13s. 9d. to 15s.; Herodefoot, 6s. 3d. to 6s. 6d.; East Roman Gravels, 3s. 6d.; East Valley, 15s. to 17s. 6d.; Mulberry Tin, 20s.; Mounts Bay, 10s. to 12s. 6d.; Mort

EDINBURGH .-- Messrs. THOMAS MILLER and Sons, stock and shar brokers, Princes-street (Jan. 31), write:—The reduction of the Bank of England Rate on Thursday has been followed by an im-Bank of England Rate on Thursday has been followed by an improvement in railway stocks. Caledonian, which stood a week ago at 108\frac{1}{2}, has advanced to 110\frac{1}{2}; Glasgow and South-Western has risen from 119 to 121\frac{1}{2}; Great North of Scotland from 53\frac{1}{2} to 55\frac{1}{2}. Several preference stocks show a rise of \frac{1}{2} to 1, and in North British (No. 1) it has been 1\frac{1}{2} -from 104\frac{1}{2} to 108\frac{1}{2}. In American, most attention has been given to New York, Pennsylvania, and Ohio Mortgage Bondy, the first, after some fluctuations, closed to day at 57\frac{1}{2}, as compared with 57\frac{1}{2} a week ago. In the second there has been an advance from 17\frac{1}{2} to 20\frac{1}{2}. In mines, Arizonas, after falling from 107\frac{1}{2} to 29\frac{1}{2}, to 35\frac{1}{2}, closed to-day at 34. In banks, Olydesdale have risen from 25\frac{1}{2} to 25\frac{1}{2}, closed to-day at 34. In banks, Olydesdale have risen from 25\frac{1}{2} to 25\frac{1}{2}, closed to-day at 34. In insurance shares, City of Glasgow Life have gone from \frac{1}{2} to 220. In insurance shares, City of Glasgow Life have gone from \frac{1}{2} to 25\frac{1}{2}, closed to-day in the second issue fell from 10\frac{1}{2} to 29\frac{1}{2}_6 and recovered to 9\frac{1}{2}_6; the third issue fell from 7\frac{1}{2} to 6\frac{1}{2}_6, and recovered to 6\frac{1}{2}_6; the third issue fell from 7\frac{1}{2} to 6\frac{1}{2}_6, and recovered to 6\frac{1}{2}_6.

IRISH MINING AND MISCELLANEOUS COMPANIES SHARE MARKET.

MARKET.

CORK.—Messrs. J. H. Carroll and Sons, stock and share brokers, South Mall (Jan. 31) write:—Great Southern and Western stock remains in demand at 119½ to 120, and Midlands were done at 89½, and Bandons at 89 to 89½. No change in Limericks. National Banks were done at 23½ to 24, and Munster at 6 15-16ths. Nothing done in Provincials or Hibernians. Alliance Gas changed hands at 17½, and Dublin Tram at 9 15-16ths. Cork Steam Packets remain 11½ to 11½, and Lyons shares 5½. Gresham Hotels were asked for at 3½, and Gouldings offered at 9. No change in others.

THE VAN MINE-MONTHLY REPORT.

Jan. 31.—In the 120 west the lode in the end is becoming harder, and more compact of late, and still producing lead ore, worth at present 30 cwts. of lead per fathom; there is still lode standing on the south side of the level. The cross-out south behind this end has been driven 72 ft., and is now suspended for the purpose of taking down the lode in the west side of the cross-out, in which direction the bed of grit rises which overlies the lead; we have six men here this month. The lode varies in produce from 10 to 30 cwts. of lead per fathom. In the 105 west we have a nice lode, containing small strings of lead and patches here and there, as yet hardly sufficient to value. In the 90 west we are at this point making lair progress towards Edward's shaft, and finding now and then small floors of lead. In the 75 west we have risen 9 ft. against Edward's shaft. In the 60 west we have such Edward's shaft af fms. 4ft. The topes throughout the mine are without any material change. The stope in back of the 60 west is finished, and the men removed to the 120 west.—Surface: All surface work is progressing regularly, including dressing. We have sold this month 500 tons of blende, and we sell to-morrow 240 tons of lead. The recent heavy storms have left their mark upon some of our buildings, but more especially upon the top reservoir, the walling of which has been much damaged, but not serious.—W. H. WILLIAMS. Jan. 31.-In the 120 west the lode in the end is becoming harder,

From Mr. John B. Reynolds.—The depression in the Mining Share Market continues, and has, indeed, been intensified during the week. Dolooaths, East Pools, West Kittys, South Frances, West Bassets, and many others have been pressed for sale, and have found but few buyers. The most absurd rumours have been started and credited, with a view to forcing prices still lower; and many will probably have but too good reason to regret their folly in belleving statements which are absolutely untrue. As a rule, trustworthy information can always be obtained from the officials of such first-class mines as those we have named, and they should be enquired of. It is cheering to note in the midst of the prevailing gloom that there are a few mines which are attracting notice, and amongst these are certainly West Polbreen and Trevaunance. Orders to buy these shares have been returned, so very difficult has t been to find seller. The explanation can readily be found in the very low prices of these stocks, and the exceptional prospects of the mines. Shares that can find buyers at this moment should indeed be enquired about at least, and it is not difficult to forecast the result of enquiries respecting these excellent properties. If New Kitty shares are exceptionally low, the fact should only bring forward buyers, for without this (or any other mine not on the eve of entering the Dividend List, or actually there) claiming freedom from the speculative element, we say that is will puzzle the most experienced to find a property with greater promise than New Kitty, the undertaking is certain to command firm adherents until its merits have been fairly and fully tested; and its progress will be watched most narrowly by those who are largely interested in West Kitty. But the question of the hour is still as to the future of tin. The question is not yet a vital one to the St. Agnes mines. They are the cheapest to work of any in Cornwall—within a similar range. Tin, at present, is at a capital price for this locality; and should frevaunance,

CASSELL'S PUBLICATIONS.—Canon Farrar's Life and Work of St Paul, part 13, contains the continuation of the chapter on Paul at Athens, in which he gives some interesting remarks upon the real meaning of the opening sentences of Paul's address to the Athenians; this is followed by this is followed by a chapter on Paul at Corinth, and the commencement of that on the First Epistle to the Thessalonians. Knight's Practical Dictionary of Mechanics, part 74, extends from Steam Engine to Steel Plate Engraving. d the cially close was a main-rand snow d re-

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FOREIGN MINES.

FOREIGN MINES.

BLEIBERG LEAD.—Wm. J. Glasson, Jan. 30: I beg to say there is no change in the lode, either in No. 2 wince nor in the 20 metre level, and going south-east; such point is producing the same quantity of bodes of the shaft as soon as possible after the water. In buryone resultivity of bodes of the shaft as soon as possible after the water. It have sent a sample of the lodestuff that is laying at the order another pails to be assayed, and will at once advise you of the produce, which you doubt will be astisfactory.

Which was no doubt will be astisfactory.

Which was not been assayed, and will at once advise you of the produce, which you of the produce, which you want to be assayed, and will at once advise you of the produce, which you not not you of the produce, which you want to be assayed, and will at once advise you of the produce, which you want to be a seasy of the your of yo A. Hamill, Feb. 1 (telegram): Profits, November and December;

W. A. Hamill, Feb. 1 (telegram): Profits, November and December; 2000; remit 10004; accounts forwarded.

DEYALA MOYAR GOLD.—Manager, Jan. 3: The past week being the tail end of the holidays very little work was done, as the Europeans were nearly all away. The mill has only been running 16 hours during the week. We have only a small number of men on at Strathearn reef as we are blocked with quartz. EBERHARDT.—Frank Drake, Jan. 6: During the two weeks ending this date our working force has been very much broken up, owing—first, to the Christmas holiday; and aecondly and sadly, to the respects paid by the workmen to their decased friend, Mr. George P. MacConkey. Therefore, the general outlook of our workings continues much the same as last reported. We are taking out some good ore, but not in the quantity we desire. But as long as we have some good ore in sight, and are following it, we are led to hope that we may eventually open into a larger body of it.—Upraise No. 4: The ore in the face of the difft small, so I have changed the workmen to raising on the ore instead of conthuing the drift.—Stope North from Upraise No. 3: The showing in this work is fully as favourable as at any time. The ledge matter carrying the ore is to 6 ft, wide, and looks well.—Drift North from Upraise No. 3: So little work has been done in this drift since my last report but little change could be expected. We have ore, but the general character of the material is much mixed.

ENGLISH-AINTRALIAN GOLD.—Mr. Mark Pollard. Fryerstown. Dec. 18:

ing out good ore above the incline, and the men in the stope are also taking out good pay ore.

ROHINOOR AND DONALDSON CONSOLIDATED.—Mr. Alfred Rickard, in his report of work done at the Donaldson Mine for the week ending Jan. 6, states:—The cross-out in the No. 1 level has been driven \$\frac{5}{2}\$ ft.; the object of this cross-out is to intersect the main part of the lode. The No. 2 level is in 427\footnote{4}\$ ft., yielding \(\frac{1}{2} \) to its melting ore per square fathom; the vein of ore holds out, but does not improve in size; it is 2 in. thick and of good quality. A station is being made in the back of the No. 3 level preparatory to starting a trise destined to communicate with the No. 2 winze; the lode is strong and well defined, carrying 2 ft. of compact mineral; although now of low grade it will improve in going up, and yield good stoping ground. The No. 3 winze is down 56\footnote{4} ft.; the lode is going down with its usual strength and regularity, carrying 2\footnote{4} ft. of mineral (low grade). The No. 4 level is in 23\footnote{4} ft. as the lode having become small a cross-cut is being put out east to search for the main part of the vein. The No. 1 cross-out in the 100 ft. level is in 23\footnote{4} ft. as any of the lower and upper streaks of the lode lately intersected give the following results:— Upper streak, gold, 2\footnote{6} co., silver, 7 cos. per ton; lower streak, gold, 2\footnote{6} cos.; bosides which the copper contents average from 6 to 7 per cent. The lower streak is 4 in. wide and of good promise. Nothing further has been discovered in the No. 2 cross-out of the 100 ft. level. The 200 ft. level are doing fairly, yielding 1\footnote{6} to 100 ft. level. The 200 ft. level are doing fairly, yielding 1\footnote{6} to 100 ft. level as the No. 2 level are doing fairly, yielding 1\footnote{6} to 100 ft. level as the No. 2 level are doing fairly, yielding 1\footnote{6} to 100 ft. level as the No. 2 level has been finished, and the men put on enlarging the shaft below the 200. The

A lot of the third class produced 1.83 oz. gold, 8.30 ozs. silver, and a trace of copper per ton.

LAKE SUPERIOR NATIVE COPPER.—J. Williams, Jan. 5: I am pleased to say since my last of the 25th inst. we have continued to make steady progress. During the past month we have had a good deal of delay in sinking in Mo. 1 shaft on account of the pumps; we have now overcome the difficulty, and unless some unforeseen accident occurs we shall sink from 5 to 10 ft. per week. Our total sinking and driving for December was as follows:—No. 1 shaft, 14 ft. 4 in.; No. 1 level south, on the course of the lode, 25 ft. 10 in. There is no change in any of the points in operation since my last. I am now getting the Diamond drill placed at No. 1 level, No. 1 shaft, for testing the lode in depth, and the ground lying on and under the lode. The result of these tests 1 shall send on with my weekly report.

PANULILLO COPPER.—The board has received on Jan. 30, from the company's manager in Chill, a wired message, advising that the Chill profits, for the six months ended Dec. 31, 1832, have amounted to 20,500. Subject, therefore, to examination and audit, the accounts for the year 1832 will exhibit a net profit of about 32,500. arter providing for interest en debentures, remuneration to directors, and all London charges. Inclusive of the amount (1458. 11s. 11d.) brought from the accounts submitted at last general meeting, and deducting the interim distribution of 15,000. On Oct. 10, 1822, there will thus be a sum of about 22,500. available for dividend and reserve on the annual accounts, which will be issued in April next.

PIERREFITTE—Manager, Jan. 23: Some slight changes have occurred in the value of the lode, but on the whole it is about the same as during the last month. There is a change in the direction of the lode at the north of the slide; it seems to be going more to the right, and if it should continue I expect it will join the other branch of the lode, on which the former company wrought to some little extent. We have broken LAKE SUPERIOR NATIVE COPPER.—J. Williams, Jan. 5: I am pleased to

and a manufacture of mins and a filtrationar need as we are blocked with quartic conversion procedured procedured below vary much recent procession, which seek new yor much recent procession, which the control of mins of the control of the contro

GAS SHARES.—The principal business in these shares, according to this evening's report of Messrs. W. L. Webb and Co., of the Stock Exchange, and Finch-lane, has been:—Balia (Limited), 19% to 19%; Continental Union (Limited), 27 to 27%; ditto new, 1869 and 1872, 18%; ditto pref., 27%; Gas Light and Coke, A (ordinary), 1883/ to 1893/; ditto C 10 per cent. pref., 224%; iditto D 10 per cent. pref., 225; Imperial Continental, 199½ to 209½; London, 220; Monte Video, 14½; Oriental, new, 6½; Rio de Janeiro (Limited), 24½ to 1642,; South Metropolitan, B, 192½ to 1631/2. Gas stocks firm, especially the London companies.

INSURANCE SHARES have, according to this evening's report of Messrs. W. L. Webb and Co., of the Stock Exchange and Finch-lane, Leen dealt in as follows:—Alliance, British and Foreign, 37; Alliance Marine (Limited), 1½/2 to 19½; Comporation (Limited), 23½; Merchants' Marine (Limited), 1½; Marine (Limited), 23½; Standard Fire Office, 1½/2 to 19½; Universal Marine, (Limited), 23½; Istandard Fire Office, 1½/2 to 19½; Universal Marine, 6½/2 to 7/2 to 193½. Insurance shares steady, and show signs of recovery from recent fall.

TRAMWAYS.—The closing prices of this evening, as quoted by Mr. W. Abbort, of Tokenhouse-yard, are given in tabular form in the last page of the Journal.

RALLWAY AND GENERAL MARKETS.—Referring to the course of business done to-day during official hours (11 to 3) Mr. Ferdinand R. Kirk, Britchin-lane, writes:—Opening: In addition to yesterday's fall of 3/2, in Gress.

RAILWAY AND GENERAL MARKETS.—Referring to the course of business done to-day during official hours (11 to 3) Mr. Ferdinand R. Eirk, Birchin-lane, writes:—Opening: In addition to yesterday's fail of 31, in Graat Western, there is a further iail of ½; but it is hardly to be supposed real holders are selling because the dividend is but 7½. To secure the same rate of interest from other railway stocks they will have to pay more than 142½, the present price of Great Western. Midland are in favour at 139½, here the dividend is 6½. Mexican Railway Ordinary have fallen 1 per cent. Erles are down to \$40. During the week there has been a further rise in Herodsfoot to \$3, to 103, this has attracted some notice to the low price of North Herodsfoot. Investors have also paid some attention so North Blue Hills, a Cost-book mine with 2s. 6d. called up. Organos and Orita have a firm appearance at 2% to 2% and 1½ to 1½; respectively. Prince of Wales, 6s. to 8s.; West Gradon, 1 to 1½; Taxkerville, 5s. to 6s.; Eangford, 9s. to 6 s.; West Caradon, 1 to 1½; Taxkerville, 5s. to 6s.; Edmond, ¼ to ½; Glenrock, ½ to ½; New Sharlstone Colliery, 5½ to 6; Rlymney Iron, 1½ to 1½.—Closing: The wet weather kept down the price of longe railways. A better tendency has bee shown in foreign bonds, Unified being higher, Peruvians and Turks steady. The interruption in the traffic led to sales of Trunks, American shares remaining flat. Brush Lights moderately firm.

GOLD AND SILVER, -Messas, PixLey and Abell (Feb. 1) write: GOLD AND SILVER.—Messes Pixley and Abell (Feb. 1) write:—There has been no general demand for gold during the week, but a sum of about 60,000t, in bars was taken for export. The balance of the arrivals, consisting chiefly of sovereigns, has been sent into the bank, the amount so disposed of being 63,000t. We have received 43,570t, from the West Indies, 18,400t. from Sydney, and 57,000t. from Central America; total, 118,570t. Silver has been in good demand for India since our last, and a further improvement in value has taken place, from 50\frac{1}{2}\text{d}, at which price the bars by the steamer Tannar, and a portion of those by the Arica, were sold; the rate has advanced to-day to 50\frac{1}{2}\text{d}, or constant. The arrivals since our last comprise 30,000t, from West Indies, 25,000t. from the Pacific, and 31,400t. from New York; total, 136,400t. The P. and O. steamer Peshawur takes 110,000t., and the Australia 34,000t. to India.

ELECTRICITY AND FIRE-DAMP.—The properties of electricity are explained in an entirely novel and amusing way by Mr. William Brown, of Glasgow, whose views, like those who believe in the attainment of perpetual motion in mechanics, are diametrically opposed to those of persons who have investigated the subject. He, of course, shows that Prof. Sylvanus Thompson's conclusions are all erroneous, and that the magnetic needle has been going the wrong way for the last 500 years. The Professor states that a dry warm glass tube excited by rubbing it briskly with a silk handkerchief will way for the last 500 years. The Professor states that a dry warm glass tube, excited by rubbing it briskly with a silk handkerchief, will attract strongly a pith ball hung up by a fine thread from a support, showing that it is highly electrified. Mr. Brown states that this fallacy of substituting the red that is electrified for the one out of which the electricity has been rubbed, runs through the whole of the Professor's work, and is the leading principle on which he founds all his experiments, and from which he draws all his conclusion, and being founded on a fallacy, the whole is wrong. Bar Mr. Brown's notions about fire-damp are still more extraordinary. Fire-damp, as it is called, may, he admits, be partly hydrogen gas, but a more careful investigation may show that it is composed principally of electricity, and that it might be carried off to the well or sink at the bottom of the shaft on the principle of the lightning sink at the bottom of the shaft on the principle of the lightning rod conductor or converted into light for the benefit of the miners. A well ventilated mine has, he says, been known to give off 900,003 cubic feet of explosive gas in five minutes, and he states that from experience it has been found that the best thing that can be done by a man rendered insensible by it is to bury him in the earth for a time, adding that this custom can be understood if it is meant by it to extract electricity out of his body by placing him in a good conducting material, but in no other way.

WEST GODOLPHIN MINE.—A very important improvement has taken place here. In the 80 cast, on the caunter, the lode, which is embedded in favourable granite, is worth 20% per fm. for tin. This is a parallel lode, and in a similar stratum to the Great Work Mine adjoining, from which immense returns and very large profits were made in its previous workings. Judging from the nature of the lode in the bottom of the 70, an improvement was anticipated, but it has been met with several fathoms sooner than calculated upon, this showing that the tin ground is lengthening in depth. calculated upon, this

NORTH COREGUM GOLD MINING COMPANY .- Claims against this pany in liquidation sho e Feb. 27. uld be sent to Mr. Henry J. Les in; Colemna-sire

DIED,—On Jan. 26, at Sillwood-road, Brighton, Meris E. ina'neth, widow of J. M'Crea, Esq., R.N., M.R.C.S. Eng.

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ing; and special High Jacket Furnaces for copper ores.

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Mining Correspondence.

BRITISH MINES.

BEDFORD UNITED.—H. Trezise, Jan. 39: There is no change to report in the ends on the north lode. The tribute pitches are much the same as when last reported on.—M'Callan's Engine-Shaft; The ground is good for sinking, and the kcde is strong and masterly in appearance. The 42 west is looking very promising; the lode is composed of peach, prian, mundic, and some good quality copper ore. The same level east is looking promising for an improvement. The 30 cast is about the same value as reported last week. The stopes maintain their value. In the 20 cast the lode is of a promising character, and the ground is very congenial for mineral.

30 cast is about the same value as reported last week. The stopes maintain their value. In the 20 cast the lode is of a promising character, and the ground is very congenial for mineral.

BLUE HILLS.—S. Bennetts, R. Harris, Jan. 31: The lode in the winze below the 30 is not quite so productive as it has been, and at present is worth 121, per fathom. In the 66 cast end there is no change to notice. The Baldhu lode in the Blue Burrow shaft is producing low quality tinstuff. The 40 cast end is worth 71, per fathom. The 30 cast end is producing some tinstuff, but the lode is small. In the Gumpas adit west end it is producing a small quantity of tinstuff, but not of much value.

BRADA.—R. Row, Jan. 31: In the 40, driving north, there is still a fine lode going on, from 6 to 8 ft. wide, composed of yellow copper, malachite, and black copper. There is also a great deal of gossan in the lode. This drivage is opening out good stoping ground. I do not see any change of note during the week in the 40, driving south, or Pryor's end, going south; in both ends we continue to open out a large orey lode, the produce of which has to pass through the dressing-floors. The stopes in the roof of the 54 are now getting into working order, and are already yielding good orestuff. I expect the engineers will get the new drawing-machine to work on Saturday, so that we can draw with the skip. The atorns of the week have greatly interfered with all surface work.

BWLCH UNITED.—W. Northey, Jan. 31: I was underground yesterday, and thoroughly examined the points in operation, but so far as I could discern I fail to see any change worthy of remark since the date of my lastadvice. The stopes in the back of the 30 and 60 look well, and with an average of from 16 to 20 cwts. of silver-lead ore per fathom. The pumping, drawing, and dressing machinery are in good order, and working well. Dressing is carried on as usual.

OARNARYON COPPER.—W. Darby, J. Roberts, Jan. 30: In the stope above the 90 the ore in the eastern end continues worth 2 tons pe

is more spar throughout the end, and letting out more water, which is strongly mineralized.

CATHEDRAL CONSOLS.—S. Davey, S. Davey, jun., Feb, 1: The lode in the 74, driving west of the engine-shaft, is 2% ft. wide, producing a little black and grey copper; and from indications we expect an early improvement. The same remark will apply to the 74 fm. driving east. The lode in the 52, driving east of the shaft, is 33 ft. wide, composed of gossan, producing both copper and tin. The point is nearing the cross-course, and will account for the change in character of the lode. We expect to find the lode equally rich to the east of the cross-course, or even richer than that gone through.

CAEN CAMBORNE.—W. C. Vivian, Jan. 31: In the 95, west of sump, on the south lode, the appearances are still very enceuraging, the lode being large, and its composition the same as that of the most productive lodes of the Camborne district. A box of copper ore broken from this level will be forwarded to you by to-morrow's train. I think, judging from our explorations recently, that the great body of ore connected with this discovery will be found going below the present level (the \$5.). In the 70 cross-cut south we are making good progress, so that I think we may calculate on intersecting the south lode in two months. In the 40, west of engine-shaft cross-cut, on the north lode, we have a lode 5 ft. wide, compositely leading me to expect that we may at any moment cut into a valu-compositely lated and the compositely leading me to expect that we may at any moment cut into a valuomposed of blende, copper ore, peach, and soft spar, its appearance and lition leading me to expect that we may at any moment cut into a valu-

wide, composed of orence, copy, composition leading me to expect that we may at any moment cut into a valuable deposit of copper ore.

CARNARVONSHIRE GREAT CONSOLS.—W. H. Borlase, Feb. 1: East and West Lode: The 24 west of diagonal shaft, as we approach the No. 4 north and touth lode, is improving very much, and is now producing fully 15 cwts. of lead per fathom for the part being carried (4 ft. wide). I think the end is very near the north and south lode, and is looking very promising for a great improvement.—Caunter Lode: The lode in the 24, west of Endean's shaft, has suffered another split, and we are still continuing the end on the south part of the lode which is producing a little lead, but not enough to value. The lode is taking a more westerly bearing, and I think the end of the fault is very near. The lode in the 24, east of Endean's shaft, is looking very promising; to-day we struck another vugh with a branch of crystalline spar about 1 ft. wide, carrying lead throughout.—The Red Lode: I have started a level to drive north of the caunter lode at the 14 on this lode, which is at present about 2 ft. wide, producing good appots of lead. On this lode the ancients raised most of their ore, and I consider the prospects in advance of this ond are most encouraging, as we are about 20 fms. below the old workings.

CWM DWYFOR AND BRYNARIAN.—J. Davles, Feb. 1: Joseph's Level: the lode we are driving on (Joseph's) improves in width and appearance; it contains nice white spar. The ground continues very tough.—Pensarn: No change in driving the 20 north.

contains nice white spar. The ground continues very tough.—Pensars: No change in driving the 20 north.

D'ERESBY MOUNTAIN.—J. Roberts, W. Sandoe, Jan. 31: In the cross-cut at No. 5 we have driven on the branches which we intersected in driving the cross-cut 2 fms. These branches produced fully 1 ton of lead to the fathom. As we are driving on the heading wall both north and south it was unnecessary to continue these ends any further than to make room for opening the ground in the bottom of the level, and so these men are now stoping underhand. Between these branches and the lead on the heading there is a poor horse of ground, which must first be taken away, but as it narrows off to a point a little distance down in the rise it will soon come away, and leave the branches bare for stripbottom of the level, and so these men are now stoping underhand. Between these branches and the lead on the heading there is a poor herse of ground, which must first be taken away, but as it narrows off to a point a little distance down in the rise it will soon come away, and leave the branches bare for striping down. In the south end on the heading we have driven about 2 fms.

stones of copper and mundio ores. At the western shaft, sinking below the 20 the ground is tolerably favourable for progress, and is congenial for the production of mineral. In the 20, east of the western shaft, the lode is 3 ft. wide, of a promising character, from which some good quality copper and mundic ores are being broken.

DEVON GREAT UNITED.—Isaac Richards, Feb. 1: In the 120, east of Willesford's shaft, the lode is 2 ft. wide, composed of capel and quartz, with a little copper and mundic ores. The distance driven during the past week is 2 ft. 6 in. In the cross-cut north at the 60, west of Watson's general character as that in the eastern direction. The distance driven during the past week is 1 ft. 5 in. In the 60, west of Watson's shaft, on the middle lode, driving west of the cross-cut south, on the south branch, the ground is favourable for progress. The distance driven during the past week is 1 ft. 5 in. In the 60, west of Watson's shaft, on the middle lode, driving west of the cross-cut south, on the south branch, the ground is favourable for progress. The distance driven during the past week is 1 ft. 1 ft. 9 in. The machinery throughout the mine is in good distinctly have a ft. 1 ft. 9 in. The machinery throughout the mine is in good distinctly hear the men driving the same level, east of Brenton's, and we hope to communicate in the course of a week or two. The same level, driving east of Mathew's shaft, is still worth from 10/s to 12/s. per fathom. Saturday next being our setting day, a detailed report will be sent you next week, and in which we shall be able to state that we have 30 is not black thin is stock.

end the lode is 3 ft. wide, of a most promising kind, and worth about 6/s, per fathom. In the 40 east end the south part of the lode has been reached and found 1 ft. wide, containing some tinstuff, but not to value, the lode being too much mixed with flookan. Probably it is near the junction of operation.

EAST DETON CONSOLS.—JOHN HOLOW, Thomas Trehair: The Balleswidden lode maintains i

other surface work is going on as assument with working condition.

GAWTON.—George Rowe, George Rowe, jun., Jan. 27: The lode in the 117 east is carried? 7t. wide, with a very promising appearance, yielding 14 tons of arsenical mundic mixed with copper ore per fathom. The fode in No. 1, No. 2; and No. stopes in the back of the 117 is worth in the aggregate 30 tons of mundic and copper ore per fathom. The lode in the stope in the back of the 105 east is worth 12 tons of mundic per fathom. The lode in the stope in the bottom of the 95, west of cross-cut, is worth 8 tons of mundic per fathom. The lode in the No. 1 and No. 2 stopes in the back of the 70, east of cross-cut, is worth respectively 10 tons of mundic per fathom.

lode in the No. 1 and No supposite the cache and the ry, where the respectively 10 tons of mundio per fathom.

GOODEVERE.—R. Knott, Jan. 31: Higher Shaft: There is no alteration to notice in the bottom end east. Finding the aleepers of the tramroad in the shallow adit very much decayed it is necessary to lay down new timber in many places, and the men are taken from the end above referred to to do this work, which will not be long in hand. The lode in the shallow drivage east has a better appearance than for some time past, and looks promising for the production of tin; it is 5 ft. wide, producing low quality tinstuff. The lode in the back of this level is 6 ft. wide, producing low quality tinstuff.—Begine-Shaft: The new lode in the 10 west is somewhat disordered, being divided in branches, producing saving work for the stamps, and I think it will soon improve again.

GODDARD'S LEAD.—R. H. Vivian, Feb. 1: We are making very fair progress in driving our eastern end; the ground is not near so hard as when we began this level, and the strata is more favourable for lead and blende; the lode continues to improve as we advance under the mountain; this end is now driven

continues to improve as we are ance under the monacan; this tow driven 16 fathoms.

GREAT HOLWAY.—W. T. Harris, Feb. 1: I beg to hand you the following report of the mine showing the work accomplished and present prospects during the month:—Roskell's Shaft: The pumping engine continues to work regular and well. The 95 level north has been extended 3 fms. 3 ft.; the ground shows a decided improvement for the production of mineral and a near approach to more important results. The lode is 1 ft. wide, containing nice stones of lead; reset to six men at 84, per fathom. In the 89 west the rise in the back has been extended 1 fm. 3 ft., and communicated with the old workings; the level has also been resumed and driven 4 ft. 6 in. The lode contains a little lead and 1½ ton of blende per fathom, and promising for an improvement. We are now in readiness to proceed with rock-arills; have been delayed through having to repair the boiler; set to six men at 114, per ton.—Tribute: A pitch in the back of this level east, worth 5 cwts. of lead and a little blende per fathom, let to two men at 74. and 40s. per ton respectively.—Brammook Shaft: Tribute No. 4, in back of the 60 east, reset to six men at 84. per ton lead and 2. per ton blende; worth of the former 8 cwts. per fathom and the latter 1 ton per fathom. No. 7 pitch, in the back of this level west, the lode is producing 5 cwts. lead and 1 ton blende per fathom; reset to four men at 84, per ton and 40s, per ton respectively. In a pitch in bottom of this level east the lode is producing 5 cwts. of lead and 15 ton of blende per fm. No. 2 pitch, in bottom of this level, the lode is worth pitch, in the back of this level west, the lode is producing 8 cwts, lead and 1 ton blende per fathom; reset to four men at 84. per ton and 40s, per ton respectively. In a pitch in bottom of this level east the lode is producing 5 cwts, of lead and 1½ ton of blende per fm. No. 2 pitch, in bottom of this level, the lode is worth 5 cwts, of lead and 1½ ton of blende per fm.; set to two men at 84. and 40s, per ton respectively.—Level Engine-Shatt: In the 80 cast, No.8, the level has been driven 3 fms. 4 ft. 6 in; the lode is 3½ ft. wide; a continuous run of lead ore, worth 8 tons per fathom, its present value, with every prospect for continuing; reset to six men at 82. per fathom. This level west has been extended 2 fms. 5 ft.; ground hard for progress, and the lode containing no lead to value; reset to six men at 102, per fathom. In a stope in the back to prove the upper measures some good stones of lead have been obtained, also blende in paying quantities, and anticipate futher good results; set to six men at 62, per fathom.—Tribute No. 1 pitch, in back of the 60, is worth 4½ tons of lead and 2½ tons of blende, which is an improvement upon last report; reset to eight men at 25s, per ton lead, and 25s, per ton blende. No. 2 pitch in the back is producing 1 ton of lead and 2 tons of blende per fathom; reset to six men at 75. per ton and 40s, per ton respectively. No. 3 pitch in back is worth 1 ton of lead and 1 ton of blende per fathom; reset to six men at 75. per ton and 40s, per ton respectively. In No. 6 pitch fin below to six men at 85s, and 20s, per ton respectively. In No. 6 pitch in the bottom of this level the lode is worth 10 cwts. of lead and 1½ ton of blende per fathom; reset to six men at 12s, and 40s, per ton respectively. In No. 6 pitch in back the lode is worth 10 cwts. of lead and 1½ ton of blende per fathom; reset to six men, at 140s, and 40s, per ton respectively. In No. 6 pitch in back the lode is worth 10 cwts. of lead and 1½ ton of blende per fathom; reset to six men, at 140s, and 40s, per ton

Here the lode has not been so productive as we anticipated, although it is of very kindly nature and of a good size, with better walls than have been, and there can be scarcely any doubt that the lode will again improve. In the north seed the scarce of the beseding side we have driven about 2 fms., in a lode worth from the control of the old workings in this direction. In the bottom stope we have taken away from 5 to 6 fms., and the lode has been worth from 1 ton to 1½ to no fleed per fm., which is now the value of the lode. On surface we have made some little additions to our sheds, which is a great advantage in the tendence we have made some little additions to our sheds, which is a great advantage in given the tendence of the property of

places, consequently not yielding much ore. We purpose alwaying cast near Robinson's sump. Derssing going on well, especially taking into account the severe weather.

HEALEYFIELD—John Trelease, Jan. 25: I am glad to inform you that in the drivage, north of Eddy's rise, the strings have somewhat improved since I has reported to you, and still continue in favourable ground for progress. We intend stripping down the strings off in the west side next week, which will enable us to form a more adequate opinion of its value. Eddy's stope still continues to yield 7 owts of lead per fathom. We are stoping this ground for 20a, per fathom. I set the men 8 Ims. stent on Monday last. Goze's stope is worth 14 cwts. of lead per fathom; tribute 45s. per bing, by three men. Clenna's stope is worth 12 cwts. of lead per fathom; tribute 45s. a bing, by three men. Clenna's stope is worth 12 cwts. of lead per fathom; tribute 45s. a bing, by four men. Deakon's stope is worth 12 cwts. of lead per fathom; tribute 45s. a bing, by four men. Deakon's stope is worth 12 cwts. of lead per fathom; tribute 45s. a bing, by two men. Stoker's stope, on strings, is near worked out, having reached the plate in the roof of this stope. The end driving south, on strings, recently intersected in the Success cross-cut, has a very kindly appearance, producing some saving work; the character of the rock is changed that these strings are embedded in, more sap in the rock. We must push this point forward. I am of the opinion that it will yet produce lead to value if driven on. The cast string, at the Success level is rather improved, a depression is occurring in the footwall, and the probability is that an increase of lead will be the result. We are now clearing out the debris from the bottom of Whitwell shaft, to clear the cross-out south, which leads to the Derwent level. It is very staff.

HINGSTON DOWN.—Thomas Richards, Jan. 31: The 40 has been driven est.

very stormy here this morning. The men I placed in the Derwent level will complete about 9 fms. of the run this week, which is good progress. The air is very bad.

HINGSTON DOWN.—Thomas Richards, Jan. 31: The 40 has been driven east of the engine-shaft during the past week, by nine men, 1 fm. I ft. 6 in.; the ground is favourable, and good progress is being made. The lode continues without any important change. The 25 east, by lour men, 1 fm. I ft. 6 in.; the ground is favourable, and good progress is being made. The lode continues without any important change. The 25 is the progress of copper ore, had is in its general character very promising. The 25 has been driven west of the cross-cut on No. 2 lode, by four men, 2 ft.; the lode contains capel, quartz, prian, and mundic, and a little copper ore intermixed. The deep adit level, by four men, has been driven 2 ft. 6 in.; total distance south of No. 2 lode 35 fms. 2 ft. 3 in.; the ground continues much the same.

KILLIFRETH.—J. Michell, Joseph Tamblyn, [Feb. I]: Engine-Shaft: The lode in the 50 end east is 1 ft. wide, producing a little tin. Two stopes in the back of this level, east and west of rise, are worth 10! per fathom each. In the 50 end west from present appearance we shall intersect the lode west of cross-course within another 6 ft. driving. The lode in the rise, east of cross-course, is worth 15!, per fathom. In the 30 end east the lode is 1 ft. wide, productive. Two stopes in the back of this level, east of cross-course, is producing a little tin, but not enough to value. Two stopes in the back of this level, east of cross-course, is producing stopes of copper with a little tin. There is nothing new in the 20 end west since last reported. The stopes in the back of this level, east of cross-course, is producing stopes of copper with a little tin. There is nothing new in the 20 end west since last reported. The stopes in the back of this level, east of cross-course, the back of the level producing stopes of copper with a little tin. There is nothing n

stopes in the back of this level, cast of cross-course, are worth 5t. per fm. Our other bargains are much the same as last reported.

KIT HILL GREAT CONSOLS.—I Richards, Feb. 1: At the tunnel level the ground continues without alteration. The distance driven during the past week is 1 fm. 3ft. At the north engine-shaft the shaft is in regular course of sinking below the 75; the [lode in which is 3 ft. wide, composed of capel and quart, with mundle, wolfram, and a little copper and tin ores. The 75, both east and west of the north shaft (with rock-drills removed from the 52 west), will be proceeded with at once, where, judging from the promising nature of the lode gone through in the level above, profitably productive ground will be laid open as the drivages are extended in these directions. In the 62, east of the engine-siaft, the lode is 1½ ft. wide, composed of capel and quartz, gossan, mundic, and a little tin ore. The distance driven during the past week is 1 fm. In the 48, west of the north shaft, the lode is 4 ft. wide, of a promising character, and yields a small quantity of tin ore. The distance driven during the past week is 2 ft. In the 48, east of the north engine-shaft, the lode is 4 ft, wide, composed of capel and quartz, with wolfram, gossan, and some good quality in ore. The distance driven during the week is 2 ft. In the 24, west of the north shaft, the lode is 5 ft, wide, of a very promising character, and yielding some good stones of tin ore.

LANGFORD.—R. Goldsworthy, Jan. 30: The 30 cross-cut morth is let to four

of capel and quartz, with wolfram, gossan, and some good quanty tin ore, and distance driven during the week is 3 ft. In the 24, west of the north shaft, the lode is 5 ft, wide, of a very promising character, and yielding some good stone of tin ore.

LANGFORD.—R. Goldsworthy, Jan. 30: The 30 cross-cut morth is let to four men, at 64. per fathom. All the joints are thickly coated with mundic and spots of copper, showing the ground to be highly mineralised. The bear-res and cister at the 40 are in their place, also set of bearers to carry drift lift, and the standing lift reared up. The men are now engaged outting ground for the pulleys to break the underlie. I hope to have both working by the end of the week.

MARKE VALLEY.—Wm. George, Feb. 1: Salisbury Shaft: We see no alteration in either of the tutwork bargains or tribute pitches calling for any special remark to-day, but Saturday next being our monthly setting each point will then be reported on.—Wheai Jenkin: In consequence of the troublesome nature of the capels we have only been able to extend the cross-cut about 6 ft. since our last report, and although not yet into the thn-bearing part as seen in the adit we find that which we have driven through contains some good quality tin, and very similar to what we found on the south part of the extensive workings at the adit level. The present cross-cut is letting out a good deal of water, but the sink made in the bottom of adit is not yet drained.

MELLANEAR COPPER.—John Gilbert, Jan. 31: In the 30 cross-cut, driving south of Gundry's shaft, the ground is a mixture of elvan and killas, with occasional veins of inundic, and letting out water and easy for driving. The 70 cross-cut, north of main lode, east of Gundry's shaft, there is no change in this cross-cut since last report, except the ground is a little harder for driving. In the 90, driving west of Gundry's shaft, on south part, the lode is 5 ft. wide, and yielding 2 tons of ore per fathom, the horse is getting very small between this and the main part of

in the old engine-shaft.

MID-DEVON COPPER.—Jas. Neill, Jan. 27: A Shaft: Water 12 ft. below the 70 fm. plat, the pitwork throughout the state.

70 fm. plat, the pitwork throughout the shaft in thorough order. Old crank on pumping wheel being no worse we purpose working on until the water in the shaft decreases, but in case it gets worse, we can now effect the change of crank promptly, as the new one is on the spot.—C Shaft: The 45 stope, cast of shaft worked by five men and one boy, improved in early part of the week, and continues to yield good deposits of ore. The composition of the strata is conducive to the yield of ore, having friable garnet and chlorite intermixed with it. The 50 driven 1 fm. 1 ft. 6 in., by six men, strata is slightly easier and is promising for the production of copper ore, although the yield has not been so good this week as last. We shall be in order for working rock-drills at this point very shortly, for this reason I now purpose to suppend this work and put the six men rising in back of this level at a point where we passed through ore ground, and where the strata is favourable, and so effect a communication with the 45, and lay out this section of the lode for stopping. The ventilation will thus be improved.—Surface, Rock-Drills, &c.: All work in connection with these machines is being pushed on as fast as weather will permit. Ore raised during week.

MOUNTS BAY CONSOLS.—W. Avgall, J. James, J. Rowe, and W. H. Argall, Jan. 24: Trebarvah: We have reset the driving of the 50 cross-cut south to six men, at 104, per fathom; the ground is still congenial, with occasional pote opper and mundic. The tribute pitch in the 62 level and back has been set to four men, at 12s. in the 14., lode worth 94, per fathom; the pitch in the better of this, at 13s. 4d. in the 14. A stope has been set to four men, at 12s. in the 14s. to get the surface. Rock and back has been set of this, at 13s. 4d. in the 14. A stope has been set to four men, at 12s. in the 14s. to get the surface of the surface and back has been set of this, at 13s. 4d. in the 14. A stope has been set to four men, at 15s. in the 14. A stope has been set to them easy to the sur

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We will con-20s, orth

engine-shaft below the adit level by six men, at 6L per fathom. We shall push this on as fast as possible, so as to get to a 10 fm. level, and cross-cut to the different bodes. We are sinking a shaft by two men, at 40s. per fathom, on No 4 lode, about 200 fms. east, now down 3 fms.; the lode is 3 ft. wide, and just getting into tinny ground. The shaft sinking on No. 5 lode has been set to two men, at 50s. per fathom: the lode is 3 ft. wide and worth 1L 10s. per fathom, and improving as we are going down. We are driving a level on a lode parallel with 50s, 4 lode by two men, at 20s. per fathom, and 10s. in the 1L tribute; the lode is worth 2L per fathom. The steam stamps are working very well, the stack for is worth 2L per fathom. The steam stamps are working very well, the stack for its other stamps are also progressing with the tramroad bobs and rods to the house, and we are also progressing with the tramroad bobs and rods to the house, and we are also progressing with the tramroad bobs and rods to the sense of the city of the state of the s

and is looking promising for an early improvement. There is no other changes to record.

MONA CONSOLS.—Wm. Bawden, Jan. 29: I am glad to tell you that to-day MONA CONSOLS.—Wm have broken some very fine rocks of ore in our plat. The lode is fully 2 ft. we have broken some very fine rocks of ore in our plat. The lode is fully 2 ft. we have broken some very fine rocks of ore in our plat. The lode is fully 2 ft. we half when the footwall, and is accompanied by a fine flookan and a beautiful blue kills congenial to copper; in the shaft it is a large lode, and we are stoping down to it with all speed. All being well, we shall put in another 9 ft. of pumps this week, in order to clear up so much more of the shaft, and shall shortly commence to prepare for market the copper we have on the surface.

NEW OARADON.—N. Richards, Jan. 31: The lode in the adit level driving east of shaft is without change to notice, producing saving work for copper, but not sufficient to value. I purpose pushing on this level towards Hallett's cross-course with the view of opening up this ground extensively about same, and as large quantities of rich ore were broken about this cross-course in the adjoining large quantities of rich ore were broken about this cross-course in the adjoining large quantities of rich ore were broken about this cross-course in the adjoining mine—West Caradon—and east of same in a parallel direction, I have every reason to believe that good results will follow the development of this eastern ground.

reason to believe that good results will follow the development of this eastern ground.

NEW KITTY.—Wm. Vivian, Feb. 1: Thomas's shaft, sinking below the adit level on the course of West Kitty flat lode. Our prospects at this point are very level on the course of West Kitty flat lode. Our prospects at this point are very secouraging as we advance. Cross-cuts driving north and south at the 50 fm. level; no change to notice last week.

NEW WEST CARADON.—N. Richards, Jan. 31: No change to notice has taken place throughout the mine since the report for the general meeting last week. All points are being urged on with the usual dispatch.

NORTH BLUE HILLS.—S. Bennetts, Jan. 31: The adit level is nearly cleared so at oge into the engine-shaft. When this is completed a short cross-cut will be driven north to intersect the lode seen in the shaft some 3 fms. below that level, when the adit may be extended on its course if considered adriable.

int level, when the adit may be extended on its course if considered advisible.

NORTH GREEN HURTH.—Jas. Polglase, Jan. 25: The deep adit is without change. The vein in the rise in south level, from the deep level, has a kindly appearance. The vein in the rise in shallow level is just coming in contact with limestone.

NORTH HERODSFOOT—T. Trelease, Feb. 1: The lode in the 117 end is now about 20 in, wide, and has improved a little in the past week, but we are only a few feet from the silide, and I think it will still improve as it gets into more settled ground. The men from the midway level have been engaged this week in taking away a piece of ground in the bottom of the level, and fixing timber to carry the tramroad. They have not taken down any lode in the midway since I reported it last week at 4 cwts. of ore per fathom. They will resume the drivage again next week. The north stope in the back of the 117 is yielding 6 cwts. of ore per fathom, and the south stope 5 cwts. per fathom. We have taken down a piece of the lode in the winze at 80; it has again improved, being now 1 ft. 6 in, wide, and is worth 6 cwts. of ore per fathom. All other operations are progressing astisfactorily.

and attisfactorily.

SOSTH PENSTRUTHAL.—Stephen Davey, Wm. Polkinghorne, Feb. 1: The
Highburrow shaft is now down about 11 fms, below the 132, which indicates
good progress is being made. The lode in the 132 is 3 ft. wide, presenting a very
pomising appearance. The other bargains are without change to note since

good progress is being made. The lote is not a size which promising appearance. The other bargains are without change to note since is treport.

NORTH TRESKERBY.—Pryor and Son, Feb. 1: Saturday last being our pay and setting we again set the deep adit cross-cut to drive north of Scorrier Considering and the size of the size of the control of the con

It is now worth for copper and arsented rotes from 2. to 30. per landing give besides fair quality tinstuff for the stamps. The lode in the 50 end east is still of a very kindly appearance, and the ground is moderately easy for driving through. All the other points underground are looking just the same as stated in our last report.

OLD GUNNISLAKE.—Wm. Skewis, R. C. Seccombe, Feb. 1: Since we have driven the adit level through the cross-course, which has proved to be very much larger and more intricate than was expected, we have driven the level north 6 fms., and cut a lode 1 ft. wide, composed of peach, capel, quartz, and copper ore; and, from the large quantity of water issuing from this end, we have no doubt but that a great improvement will soon take place as it leaves the cross-course. The rise has been suspended for the time, and the men put to sink a winze in the bottom of this level.

OWEN VEAN AND TREGURTHA DOWNS.—W. Hancock, Jan. 29: I visited the mines on Friday last, and have great pleasure in informing you the fixing of the 80-in pumping-engine is in a most forwardstate; four 14-ton boilers are also put in their proper position and shears hoisted, which looks well. If the weather proves favourable should say engine will be in order to work the early part of March month. A new steam-capstan is ordered, and house being prepared to receive it. The necessary drawing shafts will forthwish be cicared up and secured. The mine being only about 63 fms. deep the water will be rapidly pumped out, and very shortly after there is not the least doubt but what large returned tin and copper ores will be in the market.

PARTS COPTER.—T. Mitchell, Feb. 1: The lode in the 65, east of cross-cause, is looking pretty well to-day, yielding over 4 tons of ore per fathom, and il surface operations are going on much as usual.

PENHALLS.—S. Bennetts, J. Goyne, Jan. 31: The lode in the 80 west end is given as a severe of the surface of t No tope the back of the 20 by six men, at 32, per fathom; worth 172, per fathom.—Western Mine: Stowe's Shaft: The 70 to drive east by six men, at 174, per fathom; worth 74, per fathom. To sink a winze in the bottom of this level by three men, at 182, per fathom; worth 104, per fathom. No. 1 stope in back of this level by fix men, at 44, per fathom; worth 104, per fathom. No. 2 stope by six men, at 42, say fathom; worth 324, per fathom. No. 3 stope by two men, at 44, per fathom; worth 324, per fathom. No. 3 stope by two men, at 44, per fathom; worth 124, per fathom; worth 125, per fathom; lode unproductive. The 50 to drive weat by four men, at 172, per fathom; worth 167 part carried (5 ft.) 252, per fathom. No. 1 stope in back of this level by four men, at 44, per fathom. Worth 167, per fathom; worth 168, per fathom; worth 174, per fathom. No. 3 stope by four men, at 44, per fathom; worth 184, per fathom. No. 3 stope by four men, at 45, per fathom; worth 124, per fathom. No. 3 stope by four men, at 46, per fathom; worth 185, per fathom. No. 1 stope in back of this level by four men, at 54, per fathom; worth 304, per fathom. No. 2 stope by four men, at 54, per fathom; worth 184, per fathom. No. 3 stope by thom end 104, per fathom; worth 184, per fathom. No. 3 stope by this men, at 54, liss, per fathom; worth 184, per fathom. No. 3 stope by four men, at 40, per fathom; worth 184, per fathom. No. 4 stope by four men, at 40, per fathom; worth 184, per fathom. No. 4 stope by four men, at 54, per fathom. Eight pitches were set at tributes varying four stope, and the per fathom at 164, per fathom worth 185, per fathom; worth 184, per fathom. No. 4 stope by four men, at 54, per fathom is more men at 54, per fathom. No. 5 stope by four men, at 54, per fathom is more men at 54, per fathom. No. 5 stope by four men, at 54, per fathom is more men men at 54, per fathom. No. 5 stope by four men, at 54, per fathom. No. 5 stope by four men, at 54, per fathom. So. 5 stope by four men, at 54, per fathom. No. 5 stope by four men, a

resuppling.
POLROSE.—W. Bennetts, Jan. 31: I am pleased to say that in the past week to have made autisfactory progress in forking the water. We have drained the fact a little more than 10 ms. of shaft. The water is now below the back of the 50, and we hope to see that level quite drained by to-morrow, when every fort will be made to get at the broken pump as quickly as possible.

THE MINING JOURNAL.

PORT NIGEL.—Thos, Grenfell, Feb. 1: The 2 fms. 5 ft, sunk in the engine shaft, below the 80 fm. level, during the last four weeks, is on the course of the lade, which is fully 8 ft, which, in goesan and other desirable matrix for the protein of the protei

be so far completed as to canable the nier to be it is on saturday. We shall forting the source open burning and cleaning, and soon have a good parcel of tin ready SOUTH CONDURROW.—W. Rich, W. Williams, H. King, Jan. 31: In the 20, north of engine-shaft we are making preparations for timeering and securing the old cross-cut, which is apparently quie full for nearly 40 fathoms in length. We cannot open on the tin lode or on Wood's lode till after the cross-cut is made secure to the engine-shaft. The 39 end west is unproductive. Two stopes in the back of this level are worth 15.6, and 201, per fathom respectively. The 30 end east jelds low quality tinstone. The 49 end east is worth 71. per fathom. The 50 end east of King's shaft is without tin to value. Two stopes in the back of this level are worth 12.6, and 15. per fathom. The 60 end east is worth 71. per fathom. The 50 end east is worth 12.4, per fathom. The 70 end east is worth 12.4, per fathom. The 70 end east is worth 12.6, per fathom. The 80 end east is worth 10.4, per fathom is nothing year year of the port of the seven are worth 12.6, per fathom is nothing year, per change is without tin to value. The is nothing year, per port of a Marshall's shaft. We have had some difficulty lately to keep the mine free of water, owing to the excessive rains, and to the West Frances people having suspended operations at a flat-rod shaft sunk close to our eastern boundary. These rods were detached last week, and to suspend pumping at being excessive rains, shaft. We had not the slightest notice from our neighbours that is was their intention to suspend pumping at being very the per shaft. We had not the slightest notice from our neighbours that is was their intention to suspend pumping at their western shaft. We have, however, now closed the dam we put in at the 30 in anticipation of this event. The dam so far is keeping the shaft, but the same server of the server of the same as reported on, and from the appearance of the wold of the value of the same as the post of th

of tin.

TANKERVILLE GREAT CONSOLS.—A. Waters and Son, Feb. 1: The long detailed reports sent to you this week contained a full account of the general state of things and progress being made in all three mines to that date, hence it would be simply a repitition to go over the same ground again to-night. At Tankerville the 232 east has improved a little on north lode, and the 232, west on main lode, bids fair to become more productive shortly. At Pennerley we have put six men to sink a shaft below the 30, west on Warm Water lode, is a course of ore worth 3 tons per fathom. We have 10 men stoping in the back of this level on a lode worth 5 tons per fathom. No. 2 stope, east of the above, is worth 1½ to 2 tons per fathom. The two stopes in the bottom of the 30, east of cross-

cut on No. 1 run of ore, are worth together 3 tons per fathom. We are getting a lot of rich orestuff from these bargains, and I never saw the dressing-floors looking so well as now.—Bog Mine: The engine-shaft is to-day 5 fms. 4 fc. below the 175; the lode is yielding rich stones of lead ore and blende with every prospect of improvement shortly. The other points are just as described in the report read at the directors' meeting yesterday. Samples taken to-day are as follows:—Bankerville, 40 tons of lead ore; Pennerley, 30 tons of lead ore; For sale next week.

TREVALVANCE UNITED.—W. Vivian, Feb. 1: In the cross-out driving south at the 55 I consider that the prospects presented are decidedly more encouraging as we advance. Our tribute pitches continue to produce their usual quantity of tin.

at the 55 I consider that the prospects presented are decidedly more encouraging as we advance. Our tribute pitches continue to produce their usual quantity of tin.

WEST CARADON.—N. Richards, Jan. 31: The middle stope in the back of the adit level, on Glipin's lode, has slightly failen off in value; this we regards only temporary. All other points are the same as stated in last week's report for the general meeting.

WEST CREBOR.—J. Andrews, Jan. 31: The lode in the 62 west is still 3½ ft. wide, and worth 12½ per fathom. The lode is letting out more water, and the end is rather spare for driving, but I hope it will be driven far enough so that we may commence to fix the plunger-lift in a few days.

WEST DEVON GREAT CONSOLS.—George Rowe, Jan. 31: The ground in the engline-shaft, sinking below the 35, is highly mineralised, and of a good description for the production of mineral, and the lode producing very strong arsenical mundic impregnated with good quality copper ore. The lode in the 35, west of said shaft, is improving in character, with arsenical mundic, mixed with copper ore, altogether of a very kindly appearance going towards the great cross-course.

WEST GONAMENA.—N. Richards, Jan. 31: The main lode in the adit level, driving west of shaft, is fully 3½ ft. wide, with a leading branch about 4 in wide, producing mundic and rich black ore, altogether a splendid-looking lode. I shall at once increase the number of men here, and push on this level to reach the first cross-course. In the meantime I shall get the ground costeaned to ascertain where this lode intersects the same, when in all probability we shall have to sink a new shaft, and no doubt open upa good mine.

WEST GOOLPHIN.—T. Hodge, F. Hodge, Jan. 30: Caunter Lode: The lode in the 30 east end is much improved; present value 15f, per fathom, and letting out water freely. There is no other change in the underground department. We are making very good progress in erecting stands, poppet-heads, &c.; preparing to draw from the whim shaft.

WEST FOLBREE

week. Everything is going on satisfactorily.

WEST POLBREEN.—W. Vivian, Feb. 1: We continue to push on the crosscut at the 40 north of eastern shaft. There is no change to notice since last report.

WEST WHEAL TOLGUS.—John Gilbert, Feb. 1: Richard's Shaft: The lode in the 105, driving west of shaft, is 3 ft. wide, spotted with copper ore, and carrying a rich branch of mundic on the north wall; a kindly looking lode. The lode in the 85, driving west of cross-cut, on north part of lode, is 3½ ft. wide, yielding stones of mundic and copper ore and letting out some water, presenting a promising appearance. The lode in the stope in the back of the 105, west of shaft, is 5 ft. wide, and yielding 3 dens of ore per fathom; worth 2½, per fathor, The lode in No. 2 stope, in the back of the 105, west of shaft, is 5 ft. wide, and yielding 3 dens of ore per fathom; the privary for sinking in the bottom of the 105, west of shaft, is 6 ft. wide, and yielding 3 dens of ore per fathom. The shaftmen have finished cutting the ground for the bucket-rods, and they are now busily engaged in fixing the pitwork for sinking in the bottom of the 105, west of shaft. We also set seven pitches to 16 men, at an average tribute of 9s. 6d. in the 1½. WHEAL CREBOR.—H. Phillips, P. D. Holmah, Jan. 30: The shaftmen are engaged in preparing the ground for bearers and cistern in the new shaft, at the said shaft resumed. We are making good progress in driving the 132, east of No. 2 winze; the lode is of the same description as reported last week. We have resumed the driving of the 132, west of new shaft, on the south part of the lode is 1 ft. wide, containing mundic and good quality copper ore, yielding of the lode is 1 ft. wide, containing mundic and good quality copper ore, yielding of the lode is 1 ft. wide, containing mundic and good quality copper ore, yielding of the lode is 1 ft. wide, containing mundic per fathom. The stope in the back of the lade with the stope in the back of the lade with the stope in the back of the lode is 1 ft. wide, c

tain the reputation of this well-known district.

WHEAL PEEVOR.—W. T. White, T. O. King, Jan. 31: Our progress of late in sinking the engine-shaft have been somewhat slow owing to our having to stop the engine several times to rectify some necessary parts belonging to the engine and pitwork, more especially the former. This has also greatly hindered the discharge of stuff from the 90, in which level the chief portion of the best of our tinstuff is soming from. All the other bargains in the mine are much the same as when last reported. Recently we have been sinking a shaft from the surface in the north part of the sett, and we have good reasons for believing we have in this shaft Great North Downs copper lode; it is a beautiful gossan fully 5 ft. wide, and presents every indication of being productive in depth. This lode is standing wifes throughout the sett.

re maye in this shall Great North Downs copper lode; it is a beautiful gossin fully 5 ft. wide, and presents every indication of being productive in depth. This lode is standing wifele throughout the sett.

WHEAL PRUSSIA AND CARDREW UNITED.—J. Pryor, Jan. 31; Setting Report: Although we have had a few hindrances in the shaft since the last report, we are glad to say that satisfactory progress is being made in forking the water, and we hope shortly to be again in fork to the bottom of the mine.—This Lode: A stope in the back of the 70 west, by six men, at 33, per fathom; Inde worth 104, per fathom. Two men are still engaged stripping the side of the 60 fm. level west; the lode is worth about 74. per fathom. We have three stopes in the back of this level, by six men, at an average of 34, per fathom; lode worth respectively about 34, per fathom each. The 60 to drive east, by two men, at 64, per fathom; lode 4 ft. wide, and worth 74, per fathom. The 50 to drive west, by two men, at 64, per fathom; lode worth one of this level, by two men, at 34, per fathom is 104 worth 104, per fathom. A stope in the back of this level, by two men, at 34, per fathom; lode worth 104, per fathom. A stope in the back of this level, by two men, at 34, per fathom; lode worth 104, per fathom in lode, by two men, at 54, per fathom. We expect to intersect the tin lode, by two men, at 54, per fathom. We expect to intersect the further driving.—Copper Lode: The cross-cut is still being extended north of the 50 west, and last week we cut some branches. They yield good stones of tin, but we do not see anything of the copper lode seen at the 40 west. We are, however, pushing forward the cross-cut is in a little further driving we hope to intersect the tin lode, and thus prove the tin lode about 20 fms further west than yet seen. We regret to say that the copper lode is not looking so well at the 40 west; now worth 64, per fathom. We have again resumed the driving of fathom. A cross-cut to drive north at the 30 west, by two men, at 74, per fin.

COLLIERY ENTERPRISE IN GERMANY.

In reference to the paragraph in the Mining Journal of Jan. 13, on the subject of the Langerwehe Colliery, an extract from the report made (Feb. 1) to the lessee by Mr. Johann Schneider, a coal viewer and colliery engineer of great experience in this and other districts, duly certificated by the Prussian Government, is subjoined. Extract :-

districts, duly certificated by the Prussian Government, is subjoined. Extract:—

1.—"The trial shaft was sunk about 13 yards to cut a vein of coal 2 in, thick at surface, and which at the before-mentioned depth was 2 ft. thick."—2. "The Maria shaft was sunk 22 yards to a second seam of coal, which was not to be seen at surface, and from which a large quantity of coal has been delivered, was cut."—3. "The Aleiann shaft, which is about 33 yards deep, in which a third team was discovered 3 to 3½ ft. thick." "Further cast a shaft was sunk, and at only 10 yards from surface, according to the reports of several reliable men who worked there, the seam of coal was 5 ft. thick."

The most important points of the colliery are that the seams in the adjoining colliery are upon their underlay (that is in width 859 yards from north to south, and in length 2200 (cast to west) within this colliery. That the 145 yards between the adjoining colliery and Langerwehe are not proved either by shaft or boring. The seams of coal, 15 and 18 in. thick at the adk, are at the depth of 22 yards under the adit[level 2½ and 3 ft. thick respectively, and it is well to remark that the seams become thicker in depth. That these two seams of 15 and 18 in. maintain their position 700 yards east of the point of intersection in the adit level, and also in the before-mentioned shafts. In order to prove the correctness of this important point, a trial shaft was sunk by hand pumps. At 13 yards deep a seam of coal 4 ft. 9 in. thick was passed through, and at the depth of 20 yards as easm of coal 4 ft. 9 in. thick was passed through, and at the depth of 20 yards as easm of coal 4 ft. 9 in. thick was passed through; of this 18 in. is coal of very fine quality.

The colliery is in the midst of a very populous district, and the railway from Brussels to Cologne passes through the colliery, with a station at Langerwehe, about three-quarters of a mile from the works over a very good road. It is proposed first to erect the 40-horse power pumping and drawing en

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No. 119, BRISTOL ROAD, BIRMINGHAM PURCHASERS OF

LEAD ASHES, LEAD SLAGS, SULPHATE OF LEAD, TIN ASHES, TERNE ASHES, AND ALL REFUSE CON-TAINING TIN AND LEAD.

WIGGIN AND CO.,

(LATE EVANS AND ASKIN), AND COBALT REFINERS BIRMINGHAM.

The Mining Market: Brices of Metals, Ores, &c.

MET	AL MARKET-London, Feb. 2, 1883.
IRON. £ s.d. £ s. d.	TIN. £ s. d. £ s. d
Pig, GMB, f.o.b., Clyde 2 7 8-	English, ingot, f.o.b 96 0 0
Scotch, all No. 1 2 8 6	bars 97 0 0
Pars Weish, f.o.b. Wales 5 12 6	refined 98 0 J
in London . 6 2 6	Australian 92 0 0- 92 5 0
, Stafford., , 7 0 0- 7 5 0	Banca nom
in Tyne or Tees 5 15 0- 6 0 0	Straits 92 0 0- 92 5 0
Swedish, London 9 0 0- 9 10 0	COPPER.
Rails, Weish, at works 5 12 6	Tough cake and ingot. 69 10 0-70 00
Sheets, Staff., in London 8 10 0- 8 15 0	Best selected 71 0 0- 72 0 0
Plates, ship, in London, 8 17 6- 9 0 0	Sheets and sheathing, 74 0 0-75 0 0
Hoose, Staff., 7 10 0- 7 15 0	Flat Hottoms 77 0 0- 70 0 0
Nail rods, Staff., in Lon. 7 0 0- 7 5 0	Wallaroo 72 0 0
STEEL.	Burra, or P.C.C 71 0 0-
English spring 12 0 0-18 0 0	Other brands nom. 69 10 0- 70 0 0
cast30 0 0-45 0 0	Chili bars, g.o.b 64 17 6
Swedish, keg15 0 0	QUICKSILVER.
. fag. ham15 10 0	Flasks, 75 lbs., war 5 13 0
Ralls at works 4 15 0- 5 0 0	PHOSPHOR BRONZE.
, Light, at works 6 15 0	Alloys I., II., III., and IV £124 0 0
LEAD.	VI. and VII 140 0 0
English, pig, common13 10 0-	XI., Spl. bearing metal 116 0 0
L.B13 15 0	Decem
W.B14 0 0-14 2 6	Wire 734d
sheet and bar14 5 0-14 7 6	Tubes 91/4
pipe14 17 6-15 0 0	Sheets 7½ -8d.
, red16 0 0	Yel, met, sheath, & sheets 61/4d
white18 0 0-20 0 0	
patent shot15 15 0-16 0 0	TIN-PLATES.* per box.
Spanish	Charcoal, 1st quality 1 1 0-1 2 0
NICKEL.	2nd quality 0 19 6- 1 0 0

*At the works, is. to is. 6d. per box less for ordinary; 10s. per ton less for Canada; IX 6s. per box more than IO quoted above, and add 6s. for each X. Terne-plates 2s. per box below tin-plates of similar brands.

Terne-plates 2s. per box below tin-plates of similar brands.

Remarks.—The Metal Market continues in 'a more or less unsatisfactory condition, and the little better tone which followed the fall in the Bank rate last week has not been maintained, and as business has remained of a purely hand-to-mouth character prices have generally assumed an easy tendency. In addition to numerous other unfavourable features in the markets at the present time it is disappointing to find that the returns for the first four weeks of the current year show an increase compared with the same time of last year in the total failures in the iron and steel trade, and also amongst merchants, brokers, and agents, a feature which may help to destroy confidence and also check the progress of trade; but on the other hand it is satisfactory to note a good reduction in the failures in the hardware and metal trades. In his speech at Colchester last Tuesday Lord Camarvon remarked that "It was a serious sight to witness the revenue failing, to see trade so inclastic as it was, to see our exports falling off, to know that the demand which was likely to come from America would be less this year than it had been, and to see that trade—is inanimate cannot be opened to questien. It is temporarily dull, but we are not prepared to say it is decreasing, and that only one single branch is improving. The shipbuilding trade does indeed form an exception, but only from its being brisk whilst other taxdes are divested of general animation; and if reference be made to the labour market it will be found that the actual state of the trade is not after all so very inactive. For instance, we hear from Barnsley that the output of rails is large, and rolled iron is very good. At Birmingham there is a good deal doing in bridge and grider iron, whilst a similar report comes from Darlington. At Bheffield, on the contrary, there is a scarcity of orders, and all trades there are reported quiet; while at Newcastle a steady business is doing. At Wolverhampton some symptoms REMARKS .- The Metal Market continues in 'a more or less un-

for the moment there appears to be almost a total absence of business, and smelters in consequence have been easy in their quotations. This slackness in regular trade has also produced an injurious influence upon the speculative enquiry, and operators have shown great refluctance in making purchases, and the reduced rates quoted for Chili bars seem in no way to stimulate the demand. For the first two days of the week there was a retrogressive ten dency in prices, but no serious reduction was made, holders merely accepting about 2s. 6d. reduction upon previous rates, but on Wednesday, when the Chili charters for the last half of January were announced as 2300 tons, great concessions, to the extent of a further 10s. to 12s. 6d., were made, but without fluiding many buyers at the lower rates. The charters consisted of 650 tons of bars and ingots, and 650 tons of furnace material for England, and 1000 tons of bars for the Continent. It has yet to be seen whether the little scare which these heavy charters has caused will be followed by any further serious drop, or whether it may arise merely from a pressure of sales amongst weak holders, and a recovery in prices soon took place again. Both the imports and deliveries of Chili produce for the latter half of January compare well with those for the same time of last year, being 520 tons and \$12 tons, against \$33 tons and \$12 tons respectively, and which reduces the stock in first and second hands in Liverpool and Swanzes by 411 tons, amounting on the 31st uit. to 25,377 tons, against 25,785 tons on the 15th uit. The imports of other kinds of copper during the past fortnight have been \$24 tons, and the deliveries 657 tons. The total visible stock during January increased from 47,053 tons to 47,421 tons.

IRON.—There is not much business doing in this metal, but prices

tons to 47,421 tons.

IRON.—There is not much business doing in this metal, but prices, taken on the whole, remain fairly steady. Manufacturers are by no means disposed to make any great concessions in their prices; in means disposed to make any great concessions in their prices; in fact, they remain firm as a rule, unless very tempting specifications are offered, although some list houses have reduced their price 10s. per ton. There is rather more enquiry for common iron for India, but limits being generally low, only a few transactions have proved practicable. The advices from the manufacturing centres are not altogether satisfactory, as they show that in many places there is a good deal of inactivity, but at others there is taker more enquiry springing up; and although still for the most part at somewhat impracticable limits, yet it shows that consumers' private stocks

must be diminishing, and that probably ere long they will have to come into the market again. It is this which in great measure gives support to prices, especially amongst those manufacturers who hold enough orders to keep their mills in constant employment for the time being. The market is minus any speculative demand, which necessarily gives it a very inanimate appearance, and thus, perhaps, makes the trade appear more gloomy than what it really is. It being only in some districts where marked quietude prevalls, it does not follow that prices are likely to recede, and buyers would probably do well not to keep back their orders for reduced rates, as by delay they may find that prices will go the other way, which would doubtless be their tendency if present enquiries should actively turn into business. The following advices from America and the home districts testify that trade in some parts is fairly active, and in others it remains almost stagnant.

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other way, which would doubtless be their tendency if present snquiries should actively turn into business. The following advices from America and the home districts testify that trade in some parts is fairly active, and in others it remains almost stagnant.

The cable report from New York of the 26th ult. show that most descriptions of pig-iron are still firm, although the demand still keeps poor. In Scotch pigs there is no change, but Cleveland pigs have advanced \$1, while scrap and old rails have been reduced in value. There is hardly any perceptible change in the state of trade in Wales. Orders are said to flow in satisfactorily, and most of the works appear to be fully employed. The Wolverhampton market, at the commencement of the week, was unsettled, owing to the expectation that list houses were about to reduce their price, which anticipation was realised yesterday, when some marked bars were quoted down 10s. This has had a similar fallen to the same extent, and has also produced a weakening influence upon quotations for other descriptions. The reduction in marked bars has rather unsettled the market at Birmingham, and the general quotations now for list from is 7t. 10s. Commoner qualities are also lower, while sheets are offering at 7t. 10s. to S. for singles, at which there have been some transactions recorded. It is anticipated in some quarters that, owing to the reduction in the price of iron, coal and wages must also be soon reduced. Orders at Sheffield do not come to hand very plentifully for merchant from. Derbyshire and Lancashire pigs are referring at 45s. to 46s. for No. 3, and forged qualities at 44s. 6d. to 45s. Hematices are to be had at 62s. to 63s. 6d. per ton. The report from Middlesborough is not at all satisfactory, as it states the market there is not only void of all animation, but is also duller and more inactive than it has been for a long time past. The tone is not so satisfactory, and prices are 3d. per ton lower, merchants' quotations now being 42s. 3d., with buyers at 42s.; whil

3460 tons against 7164 tons for the same week of last year, or a decrease of 3704 tons, and which leaves a total decrease for the whole of this year compared with last of 5023 tons.

There is one extra furnace in blast, the total now being 107, but the public stock has been further reduced by 2107 tons, and now amounts to only 601,336 tons, against 603,423 tons last week. The shipments last week were \$738 tons, against 603,423 tons last week. The shipments last week were \$738 tons, against 8041 tons for the corresponding week of last year, or an increase of 747 tons, and which makes the total shipments for the whole of this year 42,410 tons, and which makes the total shipments for the whole of this year 42,410 tons, against 34,548 tons for the same time last year, and 35,501 tons for the similar period of 1881. In makers iron there is no change to report, while the Ghasgow warrant market opened on Monday at 473, 10½d., and business was done down to 473, 9d., and on Tuesday the price fell away a further 1d. per ton. On Wednesday there was a steady market, but prices were further reduced, business being done betwixt 478, 5½d. and 478, 6½d., and yesterday there was rather a firmer tone, but prices did not undergo much change, ranging between 473, 4½d. and 475, 6½d., while the closing figure to-day is 475, 8d. per ton.

TIN.—The transactions that have taken place in this metal during the past week have been chiefly for the fall, and prices have continued to recede from day to day, the tone at all times being extremely flat. The principal events of the week are the public sales at Rotterdam and the publication of the monthly statistics for January. On Tuesday last there were 18,700 slabs Banca soldat an average of 59\foz, which is said to be equal to 94.55, per ton, and also 3700 slabs Billiton at an average of 58\foz, equal to about 93\foz, 105, per ton. Notwithstanding these appear fairly good prices, considering the present state of the market, it has not encouraged buyers here, and the slight advance in prices a

pany's hands is estimated at 2435 tons.

SPELTER is again easier, and ordinaries are quoted at 15l. 10s. to 16l., and specials at 15l. 15s. to 16l. 5s. per ton.

LEAD.—Very little business is doing, and prices are again lower at 13l. 2s. 6d. for Spanish, and 13l. 10s. for English.

STEEL.—There is a steady business doing in rails, and some other descriptions at unchanged prices.

TIN-PLATES.—The demand keeps extremely dull and

TIN-PLATES.—The demand keeps extremely dull, and common okes can be bought as low as 16s. from second hands. QUICKSILVER is steady, without change in price.

Although rather short business has been transacted in the MINING SHARE MARKET this week, it is still without much animation, and prices, with very few exceptions, remain entirely nominal. The mines dealt in have included Gunnislake (Clitters), South Penstruthal, Old Gunnislake, Langford, Wheal Crebor, West Crebor, New West Caradon, Prince of Wales, Herodsfoot, Devon Friendship, Bratsberg, and a few others.

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strathal, Oid Gunnislake, Langford, Wheal Crebor, West Caradon, Prince of Wales, Herodsfoot, Devon Friendship, Bratsberg, and a few others.

Tin has been rather dull, but no alteration made in the standards for ore since the 25th ult. Tin shares are scarcely dealt in at all, and quotations are generally lower. Blue Hills are quoted 15s. to 20s.; Carn Brea, 7 to 7½; Cook's Kitchen, 33 to 35. Dolcoaths have fallen 5l. per share, and leave off 59 to 60, owing to a report that the lord may demand a large fine for a renewal of the lease, which has only five years to run. The amount of this fine is variously estimated in Cornwall at 30,000l. to 50,000l. It is to be hoped, however, that the rumour is untrue, though great publicity has been given to it, for it would be a great blow and discouragement to Cornish mining. The dues paid to the lord at present amount to about 9000l. a year. East Blue Hills, 7s. to 9s.; the lode in the 50 east is improving. East Pool have been weaker, at 48 to 49. Killifreth, 2½ to 3½; Nowth Blue Hills, 2s. to 3s.; South Condurrow, 9 to 9½; South Frances, 7 to 8; Tincroft has declined to 6½, 6½; West Basset, 6 to 6½; West Frances, 6 to 7; West Peevor, 5 to 6; Wheal Agar, 16½ to 17; Wheal Basset, 7½ to 8; Wheal Grenville, 6½ to 7½; Wheal Kitty (8t. Agnes), 1 to 1½; Wheal Peevor, 3½ to 4; Wheal Uny, 4½ to 5; Kit Hill, 5s. to 7s. 6d.; Drakewalls, 5s. to 7s. 6d.; Mounts Bay, ½ to ½; Tresavean, ½ to ½; Goodevere, 1 to 1½; North Penstruthal, ½ to ½; Tresavean, ½ to ½; Goodevere, 1 to 1½; North Penstruthal, ½ to ½; Theonix, 2½ to 3; West Kitty, 10½ to 11½. West Godolphin, 1½ to 1½; the 80 east, on the caunter lode, is worth 20l. per fathom.

COPPER has been decidedly weaker, but the standards for ore at the Cornish Ticketing on Thursday remained stationary; average standard, 97l. 14s.; produce 7. Bedford United, 1½ to 1½; to 3½; Newt Kitchen, 5½ to 5½; Row Cook's Kitchen, 5½ to 5½; Newt Seaton, 5to 15s.; Marke Valley, 15s. to 20s.; New Coradon, 6s. to 8s.; Parys Copper, ½ to ½; Prince of Wales, 6s.

the average process of the average process of the average process of the average process of the sampling here, 513 tons, realised on Thursday 1597l. West Tolgus, 13 to 15; the sale here, 181 tons, brought to 25s; the ore computed at 145 tons and day 15971. day 15971. West Tolgus, 13 to 15; the sale here, 181 tons, brought 13151. West Caradon, 20s. to 25s.; the ore computed at 145 tons and sold for 9611. 18s. 6d., weighed off 154 tons 15 cwts., and realised 10271. 16s. 2d. South Penstruthal, ½ to ½; in the flat-rod shaft sinking below the 130 level branches of capel and quartz are dropping into the lode, containing rich stones of yellow copper, and the prospects here are very encouraging. Devon Friendship, 5s. 6d. to 6s. 6d.; the agents report that the different points throughout the mine are looking well. Sortridge, 4s. to 5s.; the stones in the 30 are mine are looking well. Sortridge, 4s. to 5s.; the stopes in the 30 are still good, and the fire in the burning-house is expected to be lighted

his week. Russell United, \(\frac{1}{4}\) to \(\frac{3}{6}\).

LEAD mines are particularly quiet, and quotations merely nominal.

ans are quoted 5\(\frac{3}{4}\) to 6\(\frac{1}{4}\); Great Laxey, 17\(\frac{1}{4}\) to 18\(\frac{1}{2}\); Roman Gravels,

\(\frac{3}{4}\) to 9\(\frac{1}{4}\). Tankerville Consols, 5s. to 6s.; at Pennerley a shaft is this week. began below the 80 west, on Warm Water lode, on a course of lead ore worth 8 tons per fathom, and the stope in back is valued at 5 tons. They sell 140 tons of lead ore next week. South Darren, 10s. to 15s.; Iney sell 140 tons of lead ore next week. South Darren, 10s. to 15s.; the 120 east is worth 2 tons of silver-lead ore per fathom. There are 45 tons of ore for sale on the 9th. Goddard's Lead, \(\frac{1}{6} \) to $1\frac{1}{6} \); Gorsedd, 2 to <math>2\frac{1}{6} \$; Herodsfoot, \(\frac{3}{6} \) to $\frac{1}{6} \$; Leadhills, $2\frac{1}{6} \$ to 3; West Lisburne, \(\frac{1}{6} \) to $\frac{1}{6} \$; Aberduna, 1 to $1\frac{1}{6} \$; Pen-yr-Orsedd, 1 to $1\frac{1}{6} \$; Gwern-y-Mynydd, 1 to $1\frac{1}{6} \$; East Rose, 1 to $1\frac{1}{6} \$; Old Shepherds, \(\frac{1}{6} \) to $1\frac{1}{6} \$.

FOREIGN MINES.—Akankoo, \$ to \$; Alamillos, \$1\frac{1}{2}\$ to \$1\frac{3}{2}\$; Almada and Tirito, \$11-16\$ to \$13-16\$; Anglo-African Diamond, \$2\frac{1}{2}\$ to \$2\frac{3}{2}\$; Bildea Iron Ore, \$5\$ to \$\frac{1}{2}\$; Birdseye, \$1\frac{1}{2}\$ to \$1\frac{1}{2}\$; Bartsberg, \$1\frac{1}{2}\$ to \$2\frac{3}{2}\$; Broadway, \$\frac{1}{2}\$ to \$2\frac{1}{2}\$; Birdseye, \$1\frac{1}{2}\$ to \$1\frac{1}{2}\$; Callao Bis, \$1\to\$ \$1\frac{1}{2}\$; Canadian Copper and Sulphur, \$\frac{1}{4}\$ to \$1\frac{1}{2}\$; Callao Bis, \$1\to\$ \$1\frac{1}{2}\$; Cape of Good Hope Diamond, \$1\to\$ \$1\frac{1}{2}\$; Central Jagersfontein, \$1\$ to \$1\frac{1}{2}\$; Chile, \$\frac{3}{4}\$ to \$1\$; Colorado United, \$1\frac{1}{2}\$ to \$1\frac{1}{2}\$; Cootacovil, \$\frac{1}{4}\$ to \$\frac{3}{4}\$; Copiapo, \$3\frac{1}{2}\$ to \$4\$; Devala Central, \$\frac{1}{4}\$ to \$\frac{1}{2}\$; a dividend of \$2\structure{3}\$. English and Australian Copper, \$1\frac{1}{4}\$ to \$\frac{1}{2}\$; a dividend of \$2\structure{3}\$. English and Australian Copper, \$1\frac{1}{4}\$ to \$\frac{1}{2}\$; a dividend of \$2\structure{3}\$. Per share will be recommended on Feb. \$22\$, carrying \$10\$ per cent. to the reserve fund, the available balance being \$91\structure{3}\$ to \$1\frac{1}{2}\$ to \$1\frac{1}{2}\$ to \$1\frac{1}{2}\$ in \$1\frac{1}{2}\$ in \$1\frac{1}{2}\$ to \$1\frac{1}{2}\$ to \$1\frac{1}{2}\$ in \$1\frac{1}{2}\$ to \$1\frac{1}{2}\$ in \$1\frac{1}{2}\$ to \$1\frac{1}{2}\$ to

marks accompanying the declaration of the dividend are very encouraging; exploratory works are in progress at 23 different places. Ruby and Dunderberg, I to 1½; Scottish Australian, 2 to 2½; Siera Buttes, 1½ to 1½; ditto Plumas Eureka, 1½ to 1½; South-East Wynaad ½ to ½; Tambracherry, ½ to ½; Tharsis, 33½ to 34½. Tolima, 7 to 9; the profit for November (erroneously credited to Orita last week) was 5092l. United Mexican, 3 to 3½; Wentworth, ½ to ½; Wynaad Perseverance, ½ to ½; Ruby, 1½ to 1½; Gold Hill, I to 1½; St. John del Rey, 140 to 160; Victoria Gold, ½ to 1½; Michipicoten, ½ to ½; Yuba, par to ½ prem.; Placerville, ½ to 1½.

The Market for Mine Shares on the Stock Exchange has been very inanimate during the week, but the little business that has been done has been at about last week's prices, which is satisfactory, considering that copper, tin, and lead have all heavily declined. A Cornish correspondent writes that Herodsfoot Mine is likely to resume its former position in the Dividend List from its improved appearance at the bottom levels, which are rich for silver. The ore about to be sampled will, no doubt, fetch a high price, as some of it from the deeper levels which has been assayed produced from 73½ to 110 oz. of silver to the ton of ore. Since noon to-day there has been a decidedly better feeling in the general market in which mines have largely participated, the tone at the close being decidedly good. To-day's transactions include Cape Copper at 54½, Chili at ½, Cootacoovilat ½, Devala Moyar at 9-16 and ½, Eberhardt at ½, Frontino at 211-16, Indian Glenrock at ½, Indian Phoenix at 9-16 and ½, Indian Trevelyan at ½, Mason and Barry at 15½, Mysore Gold at ¾, New Emma at 1½ and 1½, Potosi at 9-16 and ½, Richmond at 73-16 up to 7½ closing firm; Rio Tinto up to 101 for bonds, and up to 22 for shares, both to bearer; South-East Wynaad, 11-16; Tambracherry, ½. United Mexicans were freely dealt in between 3 and 3½; and Tocopilla were done at ¾. This indicates that a decided improvement is setting in.

Our usual telegram from Cornwall this evening says:—During setting in.

pilla were done at §. This indicates that a decided improvement is setting in.

Our usual telegram from Cornwall this evening says:—During the past week the Cornish mine share market has been dull, and shares are weaker. The principal event of the week has been the revival of the lease scare in connection with Dolcoath, the rumour being that a heavy sum would have to be paid for a renewal of the lease. It is hoped that the committee will be able to confer with the adventurers shortly. But it may be mentioned that the report requires confirmation, and that the present lease does not expire for five years. At Redruth yesterday 778 tons of copper ore realised 3181\$\vec{L}\$, the standard advancing 8s. Carn Brea, 7 to 7\frac{1}{2}; Cook\(^1\) Kitchen, 3t to 3\frac{1}{2}; New Cook\(^1\) Kitchen, 5\frac{1}{2}\$ to 6; Condurrow, 9 to 9\frac{1}{2}\$ Crofty, 10 to 10\frac{1}{2}; South Frances, 7 to 7\frac{1}{2}; South Tolcarne, 4 to 5\tau\$ Tincroft, 6 to 6\frac{1}{2}; West Kitty, 10\frac{1}{2}\$ to 11\frac{1}{2}; Agart, 16\frac{1}{2}\$ to 16\frac{1}{2}\$; Wheal Basset, 7\frac{1}{2}\$ to 8\frac{1}{2}\$ Wheal Prussia, I to 1\frac{1}{2}; East Uny, \frac{3}{2}\$ to 1; Wheal Uny, 4\frac{3}{2}\$ to 5.

The Electro-Amalgamator Company have arranged to show their process in regular operation from Tuesday next. The report of the statutory meeting and detailed reference to the invention will be found in another column. It appears that since the meeting the directors have received the results of some washing of ore from perhaps the richest gold mine in the world, the quartz from which shows by assay 44 ozs. gold to the ton; but, owing to the refractory nature of the ore, sufficient gold in paying quantities has not yet been obtained. Mr. Fred. Claudet assay shows that Barker's process has extracted 38 ozs. gold out of the 44, or about 130\textit{L}, per ton.

The Montana Company has appointed Mr. Geo. Attwood, F.G.S., A.M.I.C.E., as resident manager of the company's mines. It is understood that he will proceed to the United States without d

Devon Great United, \(\frac{1}{2}\) to \(\frac{3}{4}\); the various points of operations present much the same appearance as at date of last report. The machinery is in good order, and working well.

Drakewalls, \(\frac{3}{4}\) to \(\frac{3}{4}\); good progress is being made in driving the deep adit level west of engine-shaft by rock drills. The lode east of Matthew's shaft is worth from 107, to 127, per fathom. As will be seen by the manager's report he expects the part was tabused.

of Matthew's shaft is worth from 10% to 12%, per fathom. As will be seen by the manager's report, he expects by next week to have 30 tons of black tin in stock.

East Botallack, 1 to 1½; it is stated that the shareholders are likely to be soon rewarded for their pa*ience, since the recent discovery in the Balleswidden portion of the property appears to be a valuable one, and will be developed with all speed. It is added that if this discovery holds good in depth, which appears probable the returns may equal those from the old Balleswidden mine, into which this new lode dips, and which gave dividends to the extent of 80,000%.

East Wheal Rose, I to 1; a very firm market is reported, buyers preponderating. Present firm appearance of market is regarded as showing every indication of a further important rise, as it is generally understood that several large options for the fall are un

Herodsford, a to 1; the improvement here in the 160 fm. level north is of great importance; the lode is worth 110 ozs. of silver to the ton, and is in new ground.

Kit Hill, \$ to \$; in the 48 fm. levels east and west the lode is 4 ft. wide, producing some good quality tin ore. The lode in the 24 fm. level, west of the north shaft, is 5 ft. wide, also yielding good stones of tin ore. The main tunnel has been driven during past week about 9 ft.

Mona Consols Copper, 1 to 14; the reports from this are favourable; some fine rocks of ore have been broken in the plat, and the lode is over 2 ft. wide, accompanied by a fine flookan and a beautiful The mine is looking well blue killas congenial to copper. The mine is looking well, and preparations are being made to send to market the copper at surface. There is also strong evidence of coming upon china clay.

Mount's Bay shares have advanced 5s. on the cutting of the branch

Mount's Bay shares have advanced 5s, on the cutting of the branch lode at Pembro. Numerous dealings in the advance are reported, and the market closes decidedly strong.

Mount Carbis, 2½ to 3½; the great flat lode so productive in the unines west of this sett will, it is said, soon be reached by a cross—cut at the bottom level. Experts favour the opinion of meeting with a rich lode, adding further value to this great tin-bearing run.

Old Shepherds shares have advanced 1-16th, 15-16ths to 1 1-16th Old Shepheros share have activity reported in them during the past there has been considerable activity reported in them during the past week, which from present appearances should, it is thought, cause a atill further rise.

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to 1; 91571 Indian Indian panga, to 1; rbella,

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Phoenix United, 2\frac{3}{2} to 3; the tin sold on Jan. 22 (about 45 tons) realised 54l. 15s. per ton; it is reported that the mine continues to improve, and open up large reserves of tin ground; in fact, to use a miner's phrase, they are looking splendid. The 50 end west is worth 26l. per fathom for 6 ft., and another 6 ft. being blasted down by stopers is worth a similar amount. The 40 west, which was poor at the meeting, is improved, and worth 12l. per fathom. One stope in the back of the 40 west is improved, and worth 45l. per fathom. There were 47 tons of tin sold for four weeks and two days at 5l. 15s. per ton, which month included Christmas.

South Devon United, \(\frac{1}{2} \) to 1; the lode in the 110, east of Brook shaft, presents an improved appearance, and east of the cross-course it is fully 4 ft. wide, with a value of 18l. per fathom, and from its present appearance it should lead to a valuable discovery. The winze sinking in the bottom of the 100 fm. level, east of Brook shaft, is worth for length of winze (9 ft.) fully 30l. per fathom. The portion of the lode carrying at Pickstone's is 5 ft. wide, and is composed chiefly of fluor spar, with a little copper ore, and will doubtless lead to a good discovery. The several other points of operation are also looking well.

are also looking well.
South Frances, 7½ to 8; the mine managers hope now that the mine is again in fork, and recent improvements have enabled the water to be more effectually controlled, to be in a position to develope the tin ground at the bottom of the shaft. are also looking well.

lope the tin ground at the bottom of the shaft.

Tresavean, \(\frac{1}{2} \) to 1; there is reported to have been more enquiry for these shares, and that being well held any buying causes an advance. The tendency is regarded as decidedly favourable.

English and Australian Copper, 1\(\frac{1}{2} \) to 1\(\frac{1}{2} \); the report prepared for the meeting on Feb. 22 will show an available balance of 91571, 9s. 6d., out of which the directors will recommend a dividend of 2s, per share, and an addition of 10 regression to the recommend. dend of 2s. per share, and an addition of 10 per cent. to the reserve

gloth. 9s. 6d., out of which the directors at their meeting on Tuesday dend of 2s. per share, and an addition of 10 per cent to the reserve fund.

Richmond, 7 to 7½; the directors at their meeting on Tuesday declared a dividend of 5s. per share, free of income tax, payable on and after Feb. 7, and in announcing the fact to the shareholders they state that since the last report the explorations in the mine have been energetically carried on—low grade ore has been found in several places, and some good ore, but no large bodies. The limestone gives favourable indications for ore in many places, which are being followed up, exploratory works being in progress at no less than 23 different places. A new level has been started at a depth of 100 ft., to explore the large extent of promising ground above the 200 ft. level. One small furnace has been running continuously, smelting on an average 20 tons of ore per week, and producing builtion of an average weekly value of \$12,000. Another furnace was started on Jan. 15, to run in connection with the refinery, reducing drosses and low grade ores; the product of this furnace is not included in the published returns. The yearly accounts will be made up to Feb. 23 as usual, and issued to the shareholders as soon after that date as possible. The usual telegram from the mines states that the week's run was \$12,000 from 236 tons of ore with No. 4 furnace. During the week the refinery produced dore hars to the value of \$10,000. The superintendent's weekly report of prospecting and deadwork (Jan. 8), states that the \$90) winze from north-west drift from south-west drift from station has been sunk 4 ft. Total 16 ft. In limestone and ledge matter, commenced drifting. The 900 north-west drift from north-east drift from station has been sunk 4 ft. Total 360 ft. In favourable limestone. The 1950 north-west drift from station has been extended 14 ft. Total 300 ft. In favourable limestone. The 1950 north-east drift from moth weath has been run 13 ft. Total 80 ft. In orushed limestone. Th

a femittance of 1000% to carry on the mines; and it is added that the stating of the amount in sterling instead of dollars favours this

Colorado United, 2 to 2½; advices from these mines (Jan. 31) report that connection has been made by means of a winze from the 12th to the 13th levels, "thus blocking out a fine piece of reserve ground of 338½ fathoms." "No. 2 stope, in the 12th level, is looking better than when last reported; the vein of mineral is on an average 6 in, in width, and varies but slightly through the entire length of the stope." There are two other stopes at work in this level, each better than when last reported; the vein of mineral is on an average 6 in, in width, and varies but slightly through the entire length of the stope." There are two other stopes at work in this level, each 200 ft, long, and carrying from 3 to 5 in, of mineral, which iwill give a good return, partloularly as No. 3 stope is reported as showing 5 in, solid mineral. The Upper Oneida and other mines worked by the same company also appear to be producing a fair quantity of ore of high grade. It is, therefore, not surprising that the manager should cable 1000l. on account of the profits of the same, but its arrival at the present moment is deemed rather significant, particularly as an agitation of an important character has been set on foot to remove those now in office. It is understood that Messra. Rickard Brothers have written to Mr. Smyth, stating that they are willing to accept the management of the property, and should they prove as successful as they were in the case of the Richmond Mine, the management of which was accepted under somewhat similar circumstances, there will be little doubt but that the shareholders will remain the debtors to those who have initiated the present agitation.

California Gold (Colorado), I to I 1-16th; the week's mill run, as reported by telegram yesterday, was 273 tons; net proceeds, 760l. This is the largest sum realised in any one week from mill runs during the 22 weeks that the mill has been in operation.

Kohinoor and Donaldson, I\frac{1}{2} to 1\frac{1}{2}; advices considered favourable continue to be received from the mine, and some satisfactory results have just been forwarded of a test run of milling ore from the Donaldson Mine.

Organos Gold, 2\frac{1}{2} to 2\frac{3}{2}; the report published in last week's Journal is said to have been well received by the shareholders, prices consequently continue firm. The next report will, it is expected, bring advices of the completion of the incline and the whole of the machinery, and that crushing the quartz will have commenced upon a

Sentein, \$ to \$\frac{3}{4}\$; enquiries for these shares are reported to continue brisk. The snow has commenced to melt in the Pyrennes. Operations on an extended scale will, it is believed, be resumed immediately, after which increased monthly profits and returns are expected from the recent fresh discoveries. from the recent fresh discoveries.

In Lead Mine shares there has been practically nothing doing, and there is no quotable change in prices. Roman Gravels, 9 to 3 tons per fathom. The stope in the back of the 110 (64 fathoms north of the end) is in a lode 5 feet wide, worth 2 tons per fathom, and with the exception of 2 fathoms stoped all the ground from the new shaft to end, 113 fathoms in length, is in reserve. The managers report that the various other points of operation are of equal values as at last report. The sale of 250 tons of lead ore last where the manager reports that he is sinking.

Tankerville, 5s. to 6s.: the manager reports that he is sinking.

ore realised 22661. 5s.

Tankerville, 5s. to 6s.; the manager reports that he is sinking a shaft below the 80 west on the Warm Water lode in a course of ore worth 8 tons per fathom; the lode now being stoped at back of this level is worth 5 tons per fathoms. The engine-shaft at Bog is 54 tathoms below the 175, the lode yielding rich stones of lead ore and blende. The several other points are without any material change. The samples of ore for sale next week are as follow:—Tankerville, 40 tons lead ore; Pennerley, 80 tons lead ore; Bog, 20 tons lead ore. Bwlch, 4 to 1; the stopes in back of the 30 and 60 fathom levels are looking well, yielding on an average from 16 to 20 cwts, of silver-lead and copper has just been received from this mine, and an old miner states they are precisely the same in character and lead ore parallely.

are looking well, yielding on an average from 16 to 20 cwts. of silver-lead ore per fathom. Another parcel of ore will be sampled this

The Flavilla Company (better known as the Chicago Mining Company of Utah) directors are inviting subscriptions to pay off certain debts in Salt Lake City and resume work at the mine. Mr. W. S. (inch).

debts in Salt Lake City and resume work at the mine. Mr. W. S. Godbe, mining engineer, reports that with the expenditure of 5000L in erecting concentrating works and in deepening the shaft, there is every probability of the property yet becoming a success.

At the Victorine meeting on Monday, among the special resolutions to be proposed is one "that the draft agreement submitted to this meeting and expressed to be made between the company and its liquidators of the one part, and a proposed new company, to be established with limited liability of the other part, be and the same is hereby approved, and that the said liquidators be, and they are hereby authorized to enter into an agreement with such new company (when incorporated) on the terms of the said draft, and to carry the same into effect." There is believed to be a property which economy and good management would make reminerative.

port, to be presented on Feb. 13, states that the net premiums taken during the year, less returns and re-insurances, amount to 110,1261, 17s. 6d., and the claims settled on that account to 49,1091. 5s. 10d. The amount underwritten was 10,912,451L, of which 8,071,3971. had run off or been re-insured up to the close of the year, leaving 1,840,554. outstanding at that time. The directors regret that the latter part of the year 18st and the greater part of the year 18st and the greater

SALE OF VALUABLE MINING PROPERTIES AND PLANT.—It will be seen by our advertising columns that Mr. Herbert H. Fuller is to offer for sale at the Auction Mart, Tokenhouse-yard, E.C., on the 15th inst., several most valuable mining properties, with engines and other machinery, &c. The PANDORA Lead Mine will be offered as a going concern with its extensive plant of machinery, &c. Though the deepest level is only 40 fathoms, there has been sold already about 25,000l. worth of lead and blende, and a large quantity of good ore is laid open. The Northern Lead Mines comprise three distinct properties, one of which alone has yielded in the hands of the present proprietors nearly 22,000l. of lead ore, and there is still a considerable quantity in the ground opened. These mines are bounded on the north, south, east, and west by some of Mr. Beaumont's long celebrated rich properties, in the county of Durham. There is a large plant of machinery, including engines, dressing appliances, &c., the whole comprising a very important and desirable investment. Last year these Northern Mines with their plant were valued as a going concern at nearly 6000l. Now is the time for investment. Last year these Northern Mines with their plant were valued as a going concern at nearly 6000l. Now is the time for capitalists to acquire such properties at a great deal less than they have cost or are intrinsically worth, and by holding on with them for a short period, and in the mean time carrying on limited operations, realise immense profits. There must soon be a turn in the long depression in the lead trade, and then we shall see a great and rapid advance in all lead mines, and in the machinery, &c., for carrying them or.

EAST BOTALLACK.

(DIVIDED INTO 6000 SHARES.)

In order to develope the recent important discovery in this Mine, referred to in this week's Journal, the Committee have determined to offer to the public a few of the Shares still in the hands of the Committee at the price of £1 per Share, all Calls paid up to date.

Application to be made, on or before the 10th inst., to the

MR. JOHN HOLLOW,

East Botallack Mine, near St. Just, Cornwall,

SORTRIDGE.—The clearing of the 40 east has nearly reached the whim-shaft. The stopes in the 30 are still turning out well for tin, and the fire in the burning-house will be lighted to-day.

DEVON FRIENDSHIP.—The agents report that almost every point throughout the mine is looking exceedingly well.

SOUTH DARREN.—The 120 east has improved to 2 tons of rich silver-lead ore per fathom. They will sell 45 tons on the 9th inst.

TANKERVILLE GREAT CONSOLS.—The 232 fathom level east at Tankerville is looking better. At Pennerley six men have begun to sink a shaft under the 80 west on Warm-Water lode, worth 8 tons of lead ore per fathom, and a stope in the same level is valued at 5 tons. Several other stopes yield together 64 tons. The lode in the engine-shaft at Bog is nearly 6 ft. wide and yielding rich stones of lead ore and blende. They have sold this week 70 tons of blende at 4.5 ft. several or 1272, 10% and sell perty week 140 tons of blende at

OLD SHEPHERDS.—It is announced that some magnificent samples of silver-lead and copper has just been received from this mine, and an old miner states they are precisely the same in character and equal in every way with West Chiverton, when the shares stood at 80*l*. each. Judging from the report the recent important discovery continues to maintain its value, and at the 44, 10 fms. below where it was found, there is a splendid lode. The agents appear to be confident of success, and speak of the discovery as being permanent. The only thing now required to enable very large sales to be mademonthly is the completion of the steam drawing-engine, and this is monthly is the completion of the steam drawing-engine, and this is reported to be nearly ready for work. It is further reported that the preparation of another parcel of lead for the market is very favourably advancing.

MOUNTS BAY CONSOLS .- There has been considerable enquiry for the shares of this company during the week, in consequence, it is said, of an important find at the Pembro sett. A branch of the lode has been cut rich, which is considered clearly to show that the lode is near, and will be found very valuable when reached. At Trebarvah Mine, according to this week's report, the tribute pitches have The City of London Marine Insurance Corporation directors' re- At Sydney Cove sett the stamps are working well, and the Burning

WEST CARADON MINE.—In the accounts presented at the general meeting on the 25th ult., the sale of ore on the 18th ult. was computed at 145 tons, realising 961l. 13s. 6d. The ore weighed off 154 tons 15 cwts., and the actual amount of sale was 1027l. 16s. 2d.

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Every information relative to the progress of lode-tin mining in the Wild River district (termed by geologists "The Cornwail of Australia") can be obtained by communicating with the undersigned.

CHARLES JENKIN.

CHARLES JUNKIN. "Herberton Advertiser" Office, Herberton, September, 1882

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A LL PERSONS ACQUAINTED with Mr. GEORGE SALTER. A late of Matales, Sinaloa, Mexico, who owned a Silver Mine in that district, are respectfully requested to forward any particulars respecting him to John Salter, Sutton Villa, London Road, Norbitor, Kingston on Theorem Norbiton, Kingston-on-Thames.

RICHMOND CONSOLIDATED MINING COMPANY

Capital £270,000, in 54,000 Shares of £5 each.
THIRTY-FOURTH DIVIDEND.

Amount of Dividends already paid £754,517 10s.

Amount of Dividends already paid £754,017 108.

Notice is hereby given, that the Directors of the above Company have this day DECLARED a DIVIDEND of FIVE SHILLINGS PER SHARE, free of income tax, PAYABLE on and after Wednesday, the 7th February next, at the Company's Bankers, the Union Bank of London (Limited), Princes-street, E.C.
And notice is hereby further given, that the Transfer-books will be closed from 2nd to 6th February, both days inclusive.

By order of the Board,
HUBERT AKERS, Secretary.

Offices 44. Coleman-street, London, E.C., 30th January, 1883.

Offices, 44, Coleman-street, London, E.C., 30th January, 1883.

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Notices to Correspondents

Market Prices of Spelter." J. L." (Bristol).—We do not find that the mean prices for 1859 and 1861 were stated in the Mining Journal annual reports for those years, but it is remarked that at the close of 1858 it was 23l., due chiefly to speculative purchases; by June the quotations had fallen to 18l. 10s. to 19l., lots purchased at those prices being soon forced on the market for cash, whilst the stocks were very heavy, the year closing at 21l. 17s. 6d. to 22l., with an unfavourable prospect. As to 1861 prices reached 18l., a lower minimum than in any year since 1852, and at the close of the year 1861 it had only recovered to 17l. to 17l. 5s., with a stock in London of over 500 tons, and still increasing.

to 11. to 11. 5s., with a stock in London of over 500 tons, and still increasing Rexived,—"J. T." (Birmingham) should apply to a sharedealer, who will advis him as to the desirability of the investment he contemplates—"A Shareholder" (Leeds)—"A Shareholder of 100l. Shares" (Collacombe)—"Dissatis fled "(Driffield)—"T. B." (Dullin)—"F. S."—"N. J. H."—"H. S. R. "—"J. N. (La Plata) should have appended his name to his letter; it would then have appended.

appeared.

PULYERISING SYSTEM.—Will any correspondent of the Journal kindly put the
writer in the way of ascertaining the particulars of the new system he has
seen described of pulverising ores to an impalpable powder by using opposing currents of air or steam to bring the ores into violent contact.—T. B.

* The TITLE-PAGE and INDEX to VOLUME LII., for the year 1882, was published in the Mining Journal of Jan. 20.

THE MINING JOURNAL,

Railway and Commercial Gazette.

LONDON, FEBRUARY û, 1883.

COKE-MAKING, AND THE HYDRO-CARBONS.

We last week drew attention to the improved mode of making coke, by which the gas tar, ammoniacal water, and other valuable products were obtained in the most direct manner by a process re-cently patented by Mr. Jameson. As yet, it may be said, the full extent of the nature and value of the hydro-carbons found in the distillation or roasting have not been realised; but already it is known that there are upwards of 60 products derived from the simple element of carbon, hydrogen, oxygen, nitrogen, and sulphur, which constitute the raw coal, and are set at liberty by its destruc-tive distillation. Were only a fourth of these utilised they would more than pay the first cost of the coal, and give the coke into the more than pay the first cost of the coal, and give the coke into the bargain. But cheap coke appears to be one of the principal matters sought for, seeing that a large quantity of it is used at the chemical works on the Tyne. The patent process has, we are told, been successfully tested at the Felling Chemical Works, belonging to Messrs. PATTESON, REDMAYNE, WATSON, and PATTESON, and certainly no better place could have been fixed upon for the purpose, or where the process could be more advantageously applied. The plant consists of four regulating furness and five, sets of chambers, with the no better place could have been fixed upon for the purpose, or where the process could be more advantageously applied. The plant consists of four revolving furnaces and five sets of chambers, with the usual accessories. The old pan process is used for decomposing, and the products are soda ash, refining alkali, soda crystals, bi-carbonate of soda, and bleaching powder made by Weldon's and Deacon's processes. Of course, there is a large consumption of coke, and the making of it at a low price would place the manufacturers on the Tyne in a position to compete with those both at home and abroad. Germany is a large producer of sodas, and considerable improvements have been made from time to time for the purpose of cheapening its production, and efforts have been made in that country to ing its production, and efforts have been made in that country to introduce the Siemens' regenerators into the manufacture of the soda, especially for the transformation of the chloride into a sul-Thera has also been a modification of the Weldon proces in Germany by means of solutions of chloride of magnesium, which are exposed to evaporation, and the residuum treated by steam then yield magnesia and hydrochloric acid. Cheap fuel in our home manufactories of sodas in particular, is a most important item, and by the new process this will evidently be attained. In addition to by the new process this will evidently be attained. In addition to that, however, there are the other products that can be readily obtained at the chemical works where the coke is made. Not the least important of these is paraffin, which on the Continent is extensively extracted from lignite, and at home from the Boghead and other bituminous shales. In Germany the paraffin, the point of fusion of which is from 30° to 60° Centigrade, is largely exported to England, France, Italy, Austria, &c. Yet there is no reason why we should be dependent upon Germany for any of our supplies, seeing that we have more of the raw material than is necessary to meet all our requirements, and actually export a portion of it for the extraction of

have more of the raw material than is necessary to meet all our requirements, and actually export a portion of it for the extraction of the colouring matter.

But the coal itself contains the paraffin, and it can now be obtained by the new process of making coke. When the coal tar is distilled two oils and certain products of a solid character are obtained; naphtha, or light oil, is the first to make its appearance, and then comes what is termed "dead oil," much heavier than water, and then various solids including paraffin parabitaline anthracese and then comes what is termed "dead oil," much heavier than water, and then various solids, including parafilo, naphthaline, anthracene, and chrysene. Parafiln is extensively used in the form of candles, and in a liquid state as lamp oil. The liquid form of parafilo can be obtained by distilling the light oil, which contains other things besides. Pure parafilo itself is a soft, light substance, without either smell or taste, and it cannot be acted upon by the most powerful chemical re-agents, such as acids, alkaloids, &c. In addition to its use in the making of candles and lamp oil, parafilo is used for various purposes in different trades; in the manufacture of matches it renders the wood more combustible than it would otherwise be; in the sagar trade it takes the place of butter; in the saturation and in the manufacture of matches it renders the wood more combustible than it would otherwise be; in the sagar trade it takes the place of butter; in the saturation and in the manufacture of matches it renders the wood more combustible than it would otherwise be; in the sagar trade it takes the place of butter; in the saturation and in the manufacture of matches it renders the wood more combustible than it would otherwise be; in the sagar trade it takes the place of butter; in the saturation and in the manufacture of matches it renders the saturation and in the manufacture of matches it renders the saturation and in the manufacture of matches it renders the saturation and in the manufacture of matches it renders the saturation and in the manufacture of matches it renders the saturation and in the saturation and in the manufacture of matches and the saturation and in the sat that the rates are nnjust to them, if they are so. The railway companies that the works in the South of England paraffin, in connection with the make of coke, could be easily obtained and so as to ensure a good profit. Paraffin can also be distilled for illuminating purposes, giving much greater brilliancy than the ordinary lighting gas, whilst the works required to produce gas from paraffin are far less costly than gas works. In addition to the paraffin which is included in the fatty hydrides, there are the chromatic hydrides, and these include benzol, which is considered by far the most important of all the hydro-carbons, and when found by FARADAY was called bi-carbide of hydrogen, being the resulting liquid from the compression of oil gas. It was first obtained from hensels and the sugar trade it takes the place of butter; in the saturation and in the manufacture of toys, dolls, tapers, and similar things it takes the place of wax. At the works in the North of England paraffin, in connection with the matter, and I can assure you that your letter will formation in the matter, and I can assure you that your letter will formation in the matter, and I can assure you that your letter will formation in the matter, and I can assure you that your letter will are consideration." As all the Leadville concerns and not the La Plata alone are suffering from these differential rates, there are the human at Leadville with a view to lay the matter fairly before the railway companies.

It must be gratifying to the La Plata shareholders to learn that the rates are nnjust to them, if they are so. The railway companies and revise existing rates. On first learning of the La Plata alone are suffering from these differential rates, there are the La Plata alone are suffering from these differential rates, there are the La Plata shareholders to learn that the tamps and the works required to view to lay the matter, and I can assure you that your letter will company's consideration." As all the Leadville concerns and not the La Plata bide of hydrogen, being the resulting liquid from the compression of oil gas. It was first obtained from benzoic acid, but more recently MANSFIELD found it to exist in the most volatile parts of coal tar,

mansfield round it to exist in the most volatile parts of coal tar, and it was also found in the same by Hofman.

Benzol is obtained by distilling naphtha, and is a very volatile colourless liquid, with an agreeable scent. But its chief value is found in the products which it gives birth to, for when mixed with nitric acid there is formed nitro-benzol, which has a strong odour of bitter almonds, due to the presence of prussic acid. Nitro-benzoline is need for the prediction of saveral partures and for flavouring conis used for the production of several perfumes and for flavouring con-fectionery. Then there are the phenol, and other tar acids, in which there is the carbolic acid, which when pure appears in the form of there is the carbolic acid, which when pure appears in the form of beautiful white, but very deliquescent, crystals. Carbolic acid is the most powerful of disinfectants, for it destroys the activity of the frential railway rates to Denver. In order that the effect of this virus acting directly on vitality. In its presence the development of embryonic life is all but impossible, and before its powerful influence all minute forms of animal life are destroyed. Amongst the merly making good and satisfactory profits have, for some time past, made none whatever. These unfair rates have affected smelters both in receiving the fuel and in the transport of the bullion. The other quality of coke, and 5s. to 6s. for by-products. Against this should

the coal there is also an interesting series of acids, amongst them the sulphurous acid, which is extensively used for bleaching straw, woollen, and silken fabrics. The above are merely a few of the valuable products that can be obtained from the making of coke, and they show that where they can be economically extracted that the work must be a profitable one. There is, therefore, every reason to believe that with the carrying out of the process patented by Mr. Jameson some new industries will be brought into existence that will be of great advantage to the North of England and to the country generally. The products of coal are as numerous as they are valuable. generally. The products of coal are as numerous as they are valuable, and the utilisation of them cannot well fail to repay those who work them with energy, seeing that we have been hitherto obliged to import a good many of them from the Continent.

ASBESTOS.

ASBESTOS.

Of late years few inventions have made greater progress in a short time than that of the manufacture of asbestos. Its uses are numerous, and of a most varied character. For piston packing the material holds an exceptionally high position, as it does also for the covering of boilers. One of its great recommendations for several purposes is that it is non-combustible, and by its adhesive properties and great tenacity is a good preservative of the metals from rust We find it in the form of a cement, and also as a fire-proof paint. Seeing the several terrible catastrophes that have taken place by the burning of theatres, hotels, and other large buildings, and the attention that is now being paid in the Metropolis to the safety of the audiences in the theatres, there is no doubt that asbestos can be advantageously introduced for the prevention of fires, or at least not authences in the treatment, there is no doubt that aspectos can be advantageously introduced for the prevention of fires, or at least not allowing them to extend. This could be effected in many ways, seeing that the asbestos can be made thoroughly fire-proof. In connection with scenery it might be so introduced that a fire would be impossible. Some time since some interesting experiments were made bearing out what we have stated with regard to our theatres, showing that the material way one of the best of preparative same showing that the material was one of the best of preventatives agains showing that the material was one of the best of preventatives against fire. Some pieces of wood coated with asbestos paint, and some without the paint, were placed on a fire, and the result was that whilst the unpainted wood burnt fiercely, the others were a long while before the fire affected them, and then only to the extent of burning the gases in the wood, for when the blocks were held up there was no fire whatever. After that there were two stages erected, one painted with the asbestos and the other not. These were fired, but whilst the unpainted ones readily caught fire the other was untouched, even when burning shavings were through on to it.

touched, even when burning shavings were thrown on to it.

The scenes made of canvas, and only covered with the paint, resisted all attempts to set them on fire. Were our theatres to have sisted all attempts to set them on ire. Were our theatres to have this material in any form, or even painted, there would be little to fear from a conflagration, which, under existing circumstances, is always to be dreaded. The cost is very moderate, and a cloth of asbestos could be made that would do instead of canvas, and, we believe, could be painted just as easily. The precaution, we understand, has been taken by the Crystal Palace Company, the stage of the theatre, at that place having been resired with the spectra. the theatre at that place having been painted with the asbestos paint. The principal ingredient of the paint, we believe, is the as-bestos itself, and, unlike most paints, they are remarkably durable, retaining their appearance for a very long time, and, therefore, in that respect, far superior to ordinary paint. Asbestos, therefore, should be found, in some form or other, in all our theatres and should be found, in some form of other, in an other public buildings where there is now inflammable material, so as to public buildings where there is now inflammable material, so as to public buildings where the risk of fire and it may be, loss of life as well. There is lessen the risk of fire, and it may be, loss of life as well. There is given to our theatre managers the means of rendering a fire, especicially on the stage, almost impossible, and that without a heavier outlay than they have to make for canvas that easily ignites. With asbestos, or asbestos paint, no fire can take place where either are introduced, for the products are both fire-resisting and acid-resisting There are the advantages of cheapness, in the first in-durability, permanency, and the still more valuable pro-f fire-resistance. With so much to be said in favour of the stance, durability, permanency, and the still more valuable property of fire-resistance. With so much to be said in favour of the asbestos material, and the paint made from it as well in one form or the other, it should be most extensively patronised, more particularly by the managers of our theatres, who would thus ensure the safety and give greater confidence to the audiences who patronised

LA PLATA MINING AND SMELTING COMPANY.

The English shareholders, and at the present time the great ma-ority of the shares are held in England, are not unnaturally greatly dissatisfied with the result of the last four months' working, and the exhibition of a loss of nearly 6000l., instead of the regular monthly dividend at the rate of 10 or 12 per cent. per annum which but a comparatively short time since they were regularly receiving, and called forth some very strong expressions against all on this side the Atlantic who have any cannection with the enterprise. To expect that a stockbroker can do more than judge of the merits of an undertaking from the report of experts engaged in the business which the company carries on is unreasonable, yet it but too often happens that capitalists, judging solely from the price of shares in the market, become overwhelmed in panic when the quotations decline, and sacrifice property which after the temporary depression is passed proves itself more valuable than ever. In the present case, Mr. William Abbott having been the largest dealer in the shares, it is complained that he has not shown his usual celerity in obtaining his Leadville information. Be this as it may, there appears no reason to doubt that he has been prompt in his action for remedying the difficulty into which the concern has fallen, nor that the steps taken will prove inadequate. pect that a stockbroker can do more than judge of the merits of an taken will prove inadequate.

The cause of the hitch appears to be the old one of difficulty in transport; both the Denver and the Rio Grande, and the Union Pacific Railroads having acted most unfairly towards their best customers. It was felt that an unfair advantage was being given to customers. It was felt that an unfair advantage was being given to Denver, as compared with Leadville, whereupon Mr. Abbott at once put himself In communication with the President of the Denver and Rio Grande line, who has given ample evidence of willingness to have the matter putaright. He states that "the policy of our company is the same as formerly—to live and let live—and not to injure the smelting industry of Leadville. I would urge the desirability of the smelting companies taking combined action, if they find it necessary to their interests to do so, and represent to the railway companies that the rates are unjust to them, if they are so. The railway companies can revise existing rates. On first learning of the La Plata

Thomas Rickard, the company's consulting engineer, replying to an enquiry of Mr. Abbott's as to the real position and prospects of the concern, states that "having repeatedly visited the La Plata proconcern, states that "having repeatedly visited the La Plata property in the summer of last year, I am still as satisfied as to its intrinsic value as I was when I made my first report. The property owned by the La Plata Mining and Smelting Company is decidedly among the best and most productive in Leadville, but the want of money has created the necessity of deferring certain indispensable improvements, both at the mines and at the works. The amount of ore offering would justify increasing by 50 per cent. the rate of smelting hitherto. My statements with respect to the resources of Leadville in furnace material have been fully borne out.

There are, however, two circumstances which have created the present difficulty. The first and most serious is that of the granting of difficulty. The first and most serious is that of the granting of difficulty.

difficulty against which the La Plata has had to contend is the high rates charged by the banks for financial accommodation. As the current local rate is about 1 to 1½ per cent. per month, it will easily be seen that the saving of the interest of such costly financing is of itself a very considerable item. . . In conclusion, nothing is more certain than that smelting at Leadville is a good paying but. ness, provided there is sufficient capital to secure the ore

ness, provided there is sufficient capital to secure the ore supplies, and to carry on the business on good and proper business principles. The complete remedy would appear to be very simple—to reconstitute the company as an English undertaking, or form a new English company, as was done in the case of the Richmond, so that the board of direction and superior control might be in London. From the number of shares held in England there would be no difficulty in doing this, and it might be assumed that the result would be a similar permanence and regularity in the declaration of dividends.

DIVERS AT WORK IN PHŒNIX UNITED MINES.

During the past few days two divers and an assistant have been engaged in attending to some pitwork under water in Phoenix United Mines. The heavy and almost incessant raise during the winter have Mines. The neavy and atmost meessant rains at the state of the so increased the water in these mines that it has risen above the plunger pole, which is situated 200 fms. from the surface. After the plunger had been working some time under water it failed to work the state of th patignet and the grant of the satisfactorily. Soon after it was discovered that it required to be packed, and the question arose as to how the obstruction was to be removed, there being several feet of water above the top of the pole. The manager and agents held a consultation, and decided to engage the services of a diver. This course was generally approved in the mines, and on the 19th instant was accordingly adopted. At first mines, and on the 19th instant was accordingly adopted. At first one diver and his assistant came on the mines, and prepared themselves to perform a piece of work underground which they had never before seen. They, however, determined to make an attempt in a vigorous manner, knowing that if their efforts were successful, much credit would be reflected on them, as it was the first time any such work by divers had been done in mining operations. Much interest was manifested in their descending the ladders and in their procedure under water which increased from 10 to 20 ft., and without light, it being the first time they were ever under the "sod." They, however, proceeded to the 200 fm. level, where operations were to however, proceeded to the 200 fm. level, where operations were to be performed on Jan. 19. Preparations were in a short time made, and the diver started to do work, the like of which had never been accomplished. Prior to the diver commencing every precaution was observed, and he was informed exactly where to stand. The diver succeeded in packing the pole, and a signal was given to the engineman to work the engine. It started, and the plunger pole worked in very satisfactory manner all night, but in the morning the shafe a very satisfactory manner all night, but in the morning the shaft men ascertained that the pole had failed, and wanted to be attended men ascertained that the pole had failed, and wanted to be attended to again. The diver prepared to pack the pole the second time, and continued to attend to it until Monday, the 22nd inst., when the work was deemed too laborious for one man to continue to do, and the services of a second diver were called in to perform the same kind of work as the former. Up to Jan. 31 the engine continued working as satisfactorily as ever. The divers and apparatus were had from Her Majesty's Dockyard, Devonport, kindly and promptly lent for the occasion by the Admiral-Superintendent.

occasion by the Admiral-Superintendent.

Mr. Thomas McCulloch, diver, who has been in Her Majesty's tervice for 16 years, has had the gractical execution of the work, he with the other diver and assistant having returned. There is great praise due to Phœnix Mines' agents for their assistance—the names of Capt. Truscott and Capt. Harvey being entitled to special mention. The above successful experiment is a new feature in mining. By adopting this course a considerable expenditure to the company has been prevented.

DYNAMO-ELECTRIC MACHINES.

An improved method of developing magnetic force in iron magnets, and for turning and directing the lines of force into the field or armature path, has been invented by Mr. JOHN FARQUHARSON, of Fulham. This is effected by building up the magnets of alternate layers of iron and wire; by this means the insulated wire in which the exciting current circulates is brought nearer to the iron, and the loss of force due to the usual distance of the outer layers of wire is thereby saved He makes the core or central portion of a form suitable for taking two or more layers of wire, its transverse section being circular or any other form suitable for its position in the machine. On this core he places two or more layers of insulated copper wire. Over this another layer of iron, fitting closely, and which may consist of several bars of soft iron, or of one bar of suitable form, open lengthwise to revert it is a layer of the place prevent circular currents in the iron; in this manner the electromagnet is built up; on this two or more layers of insulated wire is placed, covered by a layer of iron as before, the outside and the inside being covered by a layer of iron as before, the outside and the inside being iron. The armature circuit consists of a narrow ribbon of copper arranged as described hereafter, the object sought being to revolve the whole in a magnetic field of high intensity, and to cut as many lines of force as possible; for this purpose the ribbon is covered on one side with tape or other suitable insulating material; it is then folded backwards and forwards. The folds being of equal length to suit the magnetic field, the whole of the ribbon required is thus formed into a straight bar, closely pressed together, its thickness being the width of the ribbon, and its length being the same as that of the metal ring or armature periphery; this ring has a U-shaped being the width of the ribbon, and its length being the same as that of the metal ring or armature periphery; this ring has a U-shaped section, one side being movable. The bar of ribbon formed as described is placed on the periphery on its edge, and readily lends itself to the circular form, the folds opening at the outer edge. It is then secured on its inner edge by the movable ring, the insulation of the conducting ring is completed by wedge-shaped pieces of wood or other suitable material, the outer ends of which project slightly beyond the conductor, and take the inward pressure of a band for keeping the ribbon firmly in its seating. When the machine is to be self-exciting a section of the ribbon is separated, the ends being led to a suitable commutator. suitable commutator.

UTILISING BY-PRODUCTS IN THE MANUFACTURE OF COKE.

The present method of making coke in England has been described by Dr. Angus Smith as having all the appearance of roughness which extravagance always produces. Attention has frequently been given to the subject by inventors, and in 1880 a paper was read before the Iron and Steel Institute by Mr. H. Simon, of Manchester, describing a system patented by himself and Mr. Carves, which has since been adopted by Messrs. Pease and Partners, of Darlington, the success of the process having previously been executioned in Erange. The firm the process having previously been ascertained in France. The firm in question proceeded to build a battery of 25 ovens, which have now been at work for a considerable time. They seem to have done the invention, and nor expense to make it a success. All the figures and statements given by the patentees as to the results obtained in France are said to have been completely confirmed, and in some respects surpassed. It has now been practically proved that the coke obtained in these ovens is excellent, and leaves nothing to be desired as furnace coke. It is of great hardness, and is said to contain less sulphur, the latter circumstance being attributable to the fact that the gas evolved during the process is in this system continually sucked or pumped away, including, of course, a good percentage of sulphur in the form of vapour. The quantity of coke is said to be increased to fully 75 per cent. (after deducting moisture) of the coal charged. This in itself, and comparing it with the ordinarily obtained percentage of from 65 to 65 per cent of coke is estimated to be a gain centage of from 62 to 65 per cent. of coke, is estimated to be a gain of fully 10 per cent. in coke, or equal to (say) is. per ton of coke made. The by-products, in the shape of tar and ammonia water, amount in value to between 5s. and 6s. per ton of coke made, assuming tar to be worth 3d. per gallon, and ammonia water 1d. per mallon.

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be set a possible slightly increased expense in the working of the overs. It is stated that the expenditure under this head amounts to about 1s. 6d. per ton, as against 9d. to 1s. under the old system. It appears that a well-known chemical manufacturer in the North of England who has analysed and used the bar made according to the Simon-Carves' system, at the Messrs. Pease's works, states that its quality is even superior to the best average bar obtained from gasworks. It is admitted that it is possible that the value of the by-products would, by an over-production, be reduced to some extent; but it is urged that as far as tar is concerned, the value has been increasing considerably of late on account of its greater production for the manufacture of analine dyes. With regard to the ammonia water, it is believed that if the price were to fall a little an almost unlimited enquiry for its use as artificial manure would commence to spring up—the only reason why it is less used at present being that the cost is still somewhat too high.

Within certain limits it is considered to be a drawback to this system that the erection of the coke ovens and appliances is rather expensive; but the patentees state that owing to the increased returns the whole cost of establishment would be refunded by returns of less than two years' working, so that the question cannot be considered of very great importance. The importance of the subject was best by the fact that there are several firms in this

of less than two years importance. The importance of the subject can best be realised by the fact that there are several firms in this country manufacturing somewhere about 10,000 tons of coke per

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ENGLISH DUTIES ON COAL.

The history of the London Coal Dues has been so frequently written and their recommendations and evils so fully discussed that it might almost be thought that little new could be brought forward mpon the subject; but Mr. Theo. Wood Bunning, the indefatigable secretary to the Northumberland and Durham Coal Trades, in a pamphlet just issued—An Account of the Duties on Coal, and the London Coal and Wine Duties. Newcastle-on-Tyne: Andrew Reid—has shown that there is still plenty to record in order that the history of the tax should be fully understood. Coming, as it does, from a colliery district there need be no fear that the pamphlet exaggerates in any particular, since the result of the abolition of the duty would be to cripple several of the most prosperous industries of the Northern counties—industries which could be more profitably carried on upon the banks of the lower Thames but for the 1s. 1d. protective duty on coal now enjoyed by the manufacturers of the Tyne. But apart from the question of the transfer of established industries, there are other considerations of no less importance. There was probably coal now employed by the manufacturers of the Tyne. But apart from the question of the transfer of established industries, there are other considerations of no less importance. There was probably no tax ever imposed which has been more willingly paid by those upon whom it falls than the London coal tax, and the agitation for upon whom it is repeal has invariably come from the coalowners, in the hope that by increasing their sea sale they will be the better able to enforce their demands upon the consumers, upon whom they depend

for their land sale.

The trade of London being rather commercial than manufacturing those who bear the London coal tax, whilst admitting that its repeal would facilitate the establishment of factories within the London district, arge that there is no necessity for them, and that inasmuch as the whole of the duty is applied to the sanitary and general improvement of the district in which it is levied they receive a very ample equivalent for the payment made. It is well known, moreover, that the removal of the tax would not lessen the price of coal the payment within the taxed district by a single penny per over, that the removal of the tax would not tessen the price of cost to the poor consumer within the taxed district by a single penny per ton, as is evidenced by the fact that the price of coal to the consumer is actually higher in coast towns, where London taxation is unknown, than in London itself. Nor is the wholesale dealer in such localities more favourably situated. Even at such places as Brighton, Dorer, and Folkestone it is usually more profitable to the dealer to bay in London than to import direct from the Tyne, the reason being bay in London than to import direct from the Tyne, the reason being that in dealing direct there is practically no competition, whilst in dealing at a regular market the price of the moment, and which is fixed by the competition prevailing, there can be taken advantage of. There can be no doubt that immediately on the abolition of the London coal tax many coalowners would be disposed to follow an example which has been already set, and attempt to supply the consumer direct and that, following the practice adopted in the example sumer direct, and that, following the practice adopted in the example alluded to, the extra profit would be divided between the coalowner and his London agent, no portion of the pretended advantage being given to the consumer. Thus a few of the more wealthy coalowners given to the constance. This a few to the more weatty control would add to their already ample gains at the expense of those who at present form the London market.

as present form the London marker.

But perhaps the most important consideration, taking the question of the London coal dues as a tax imposed upon themselves by those who pay it is whether the London district has really had full value for who pay it is whether the London district has really had full value for the amount expended, and this no one who carefully reads Mr. Bunning's pamphlet can for a moment doubt. He shows carefully and distinctly the various useful purposes for which moneys have been maised and expended on the security of the coal dues, and that in this way upwards of 6,500,000l. has been provided during 20 years without inconvenience to anyone, which would otherwise have had to be raised by onerous direct taxation. Mr. Bunning's pamphlet will certainly be referred to upon the re-discussion of the subject, and a more thoughtful and reliable work of reference need not be desired.

THE SILVER DISTRICT OF SPANISH AMERICA.

The history of the gold and silver mines of the New World has always been an interesting subject of study with miners in Europe, and the attractive character of El Libro del Oro, the object of which was to prove that Chili has been the richest country in the world for gold, and that it is capable of being made so again by the vigorous exploration of its subterranean auriferous gravels, has caused the author's name to be favourably known to many readers of the Mining Journal. He has now completed an equally valuable and interesting volume treating of the argentiferous deposits of Chili and the neighbouring States—El Libro de la Plata. Por B. Vicuña Mackenna Santiago de Chile: Cervantes, Calle del Puente—which will well repay attentive study by all having capital embarked in mines of the class referred to. The exhaustive character of the book may be judged of from the circumstance that the 24 charters into which it pay attendive sculy by an analysis character of the book may be judged of from the circumstance that the 24 chapters into which it is divided fill more than 700 pages, and treats of the whole history of silver mining in the country from the time of the Incas to the is pointed out why the age of gold must have preceded in Chili, as in California, that of silver. It appears that the ancients sought silver mines only in the cordillera, and this, as well as the trade of breeding mules for the Potosi, injured the mining industry of Chili. There are good accounts of the Chilian silver mines of the time of Pedro Valdivio; of the first mention of the silver mines of the north; of the Chilian silver mines of the north; of the discovery of Huspallata Mines in 1738, and formation of the first mining company with a share capital in Chili. The concessions ars mining company with a share capital in Unit. The concessions of a state of the unidado, se le atribuia la enorme incuitad do lo politico, se la diffusión que ningún estante ni habitante pudiese salir de ella sin un permiso especial, puesto que la jente minera 'era la mas ociosa i vagabunda de todo el reino.'"

Treating of the first argentiferous productions of Copiapó, it is remarked that it owes its origin to the gold, and not to the silver. The first discoveries of silver in Copiapó were foreigners—the Portuguese, Don Cayetano de Almeida, and the Pole, Borkoski. An entire chartes its discoveries of silver in Copiapó were foreigners—the Portuguese, Don Cayetano de Almeida, and the Pole, Borkoski. An entire chartes its discoveries of silver in Copiapó were foreigners—the Portuguese. chapter is devoted to the account of the English in Chili from 1820 to 1825, and there are chapters on Arqueros and on Chañarcillo. In speaking of the geology and production of the latter discrict a high compliment is paid to the admirable practical intelligence of the Chilian miners. The chapter on the age of silver in Atacama is a particularly interesting one as its also that on the life and observer.

cordillers with a view to the construction of a railway, his application to construct which was, however, coldly negatived. Caracoles
is fully referred to in the 14th chapter, and there is a good account
of its mineralogical exploitation in that which succeeds. A chapter
is devoted to the silver mines of the central region—from the Cachapoal to the Aconcagua—and it is shown that districts which have
been passed by as non-metalliferous are well worth attention. The
statistics of the metalliferous riches of Chili in the 19th century
show how highly productive the country has been, and the following
chapter on the influence of the discovery of silver upon the progress
and civilisation of Chili is well considered and exhaustive. In the
remaining chapters the silver mines of Bolivia and the Argentine remaining chapters the silver mines of Bolivia and the Argentine Republic, of Peru and Mexico, of Nevada, and of Cachinal de la Sierra are fully referred to, thus making the volume as complete and reliable a guide as need be desired.

THE IRON AND IRONSTONE TRADE OF NORTHAMPTON.—There is scarcely any one of our iron-making districts that has made greater progress than Northamptonshire, more especially as regards production of ore, large quantities of which are sent daily to South Wales, Staffordshire, Derbyshire, and the West Riding. It is less than 30 years since ironstone was discovered in Northamptonshire, and first worked by Mr. W. Butlin, at Wellingborough, and who was also the first to erect blast-furnees for the smelting of it. In 1855. and first worked by Mr. W. Butlin, at Wellingborough, and who was also the first to erect blast-furnaces for the smelting of it. In 1855 the quantity of stone raised in the county was 74,084 tons, and there was a gradual increase up to 1870, when a considerable impetus was given to the demand by a series of articles on the subject of the iron ores of Northamptonshire which appeared in the Journal, so that the output last year was close upon 1,500,000 tons, nearly three-fifths of which was put on to the Midland Railway for the North, Derbyshire taking the largest quantity. From Blisworth a considerable tonnage was sent into South Wales and Staffordshire via the London and North Western Railway. Several of the ironmasters in both Derbyshire and Notts now work the ore on their own account, amongst them being the Bestwood Company, who have had two furnaces in blast during the greater part of last year. The Staveley Company has also leased some ground so as to work it direct. In connection with the Northamptonshire field of ore may also be included the two adjoining counties of Rutlandshire and Oxfordshire, where the ores are similar, and all found in the Permian. They are all, no two adjoining counties of Rutlandshire and Oxfordshire, where the ores are similar, and all found in the Permian. They are all, no doubt, part and parcel of our great and continuous field, and which must ultimately become the principal feeder for the furnaces in nearly all parts of the kingdom, for the supplies are practically inexhaustible, and will be in vigour when the deposits of Cleveland are being worked out. The ore is now being extensively worked in Oxfordshire, and furnaces are about to be erected on the estate of the Duke of Marlborough. In Rutlandshire the ironstone runs into the Northamptonshire field, and a good deal is being raised, the Midland Railway Company having given facilities for its transport to the North. During last year there were 15 furnaces in blast in Northamptonshire, producing upwards of 200,000 tons of pig. The Glendon Iron Company, whose works are close to the Finedon station of the Midland Railway, for some years past have been the largest producers of iron in the county, and during 1882 had four out of their five furnaces in blast. The company, or rather Messrs. Checkland ducers of iron in the county, and during 1882 had four out of their five furnaces in blast. The company, or rather Messrs. Checkland and Fisher, have a colliery at Ilkeston, in Derbyshire, from which they obtain supplies of fuel. At Islip, near Towcester, two out of the four furnaces have been in blast, and Mr. Plevins, who was the founder of the works, is also a colliery proprietor in Derbyshire. On the south side of the town of Northampton there are several works, but only the furnaces belonging to the Hunsbury Hill Coal and Iron Company have been in blast. Dr. Siemens and some other gentlemen started some works a few years ago at Towcester for making iron and steel by a direct process; but the two furnaces have been iron and steel by a direct process; but the two furnaces have been out of blast for a considerable time past, and there are no signs of their being lighted again, the quality of the ores, it is understood, not being such as to be suitable for the direct process. The furnaces at Weedon that were erected a good many years ago, and have frequently changed hands, have also been standing. Mr. W. Butlin, the father of the iron trade of Northamptonshire, has only had one the father of the iron trade of Northamptonshire, has only had one furnace in blast; but he has been building a new one. At Kettering the Cransley Company have been working well, the two furnaces having been kept fully going for a considerable time past. Although the production of iron in Northamptonshire is not so large as might be expected, considering its vast resources, and in that respect is behind its more recently discovered competitor, Lincolnshire, yet it stands about second to Cleveland only as regards the quantity of ironstone raised, and so keeps a good many furnaces in other and distant districts fully going, and this it is likely to do for ages to come, and when other now important districts are entirely exhausted.

PRIZES FOR USEFUL INVENTIONS.—Among the prizes offered by the Society of Arts for the present session are several, for which many readers of the Mining Journal might compete with fair chances of success. Special mention may be made of the Benjamin Shaw prize—1. A society's Gold Medal, or 20t., for the best plan for "Obviating or Diminishing Risk to Life in the Operations of Coal Mining."

—2. A society's Gold Medal, or 20t., for the best plan for "Obviating —2. A society's Gold Medal, or 20l., for the best plan for "Obviating or Diminishing Risk to Life in the Manufacture, Storage, and Transport of Explosives." The council of the Society leave it to the competitors to bring the plans under their notice in any way they may think proper, whether by model, written description, or otherwise.—Howard Prize: A prize of 100l. for the best essay "On the Utilisation of Electricity for Motive Power." Preference is to be given to that essay which, besides setting forth the theory of the subject, contains records with detailed results of actual working or experiment. The society reserves the right of publishing the prize essay.—Fothergill Prize: A society's Gold Medal, or 20l., for the best invention having for its object the Prevention or Extinction of Fires in Theatres, or other Places of Public Amusement.—Mulready Prize: A society's Gold Medal "To that Student in a School of Art in the United Kingkom who exhibits the best Drawing from the nude figure, executed kom who exhibits the best Drawing from the nude figure, executed in black and red chalk, in the manner so successfully practised by Mulready." Designs, plans, models, essays, descriptions, inventions, &c., intended to compete for any of these must be sent before Oct. 31 to the secretary of the Society of Arts, John-street, Adelphi, London.

MILD STEEL FOR LOCOMOTIVE FIRE-BOXES. - In a paper re before the Institution of Civil Engineers, on Tuesday evening, Mr. John Fernie, M.I.C.E., stated that the use of mild steel for the fireboxes of locomotive engines was now general in the United States. Although large numbers of the outer shells of the boilers were still made of iron plates, this was simply to effect a saving of expense, and many railroad companies had the boilers wholly of steel. Iron plates were first used as a substitute for copper, owing to the rapidity with which the anthracite coal wore away the soft copper. When sound the iron plates gave better results, but the weldings were frequently unsound; they were apt to blister, and the plates were subject to crack near the firebars. Steel fire-boxes, the plates being a nearly pure compound of iron and carbon, were used for the Pennsylvania Railroad engines 11 years ago. Since then excellent steel for this purpose had been made by the Siemens-Martin open-hearth process in any places in the United States. The reads of manufacture process in many places in the United States. The mode of manufacture of this steel was briefly described, as it differed from English practice. Describing first the English type of locomotive fire-box, and afterwards the various new forms of American fire-boxes, the author stated that in the former the strains set up by the greater expansion of the inner box over the outer from the higher temperature were aggravated from the material being of copper, which expanded more than iron under equal increments of temperature. Greater stress was t hrown upon the stays, and by the use of copper and brass tubes a galvanic action was established in locomotive boilers, which speedily des troyed speaking of the geology and production of the latter district a high compliment is paid to the admirable practical intelligence of the Chilian miners. The chapter on the age of silver in Atacama is a particularly interesting one, as is also that on the life and character of the miners of the North. Treating of the Desert of Atacama and its first explorers, full credit is given to Don Diego de Almeida, Don José Antonio Moreno, and Don José Santos Ossa. Mention is made of the discovery of the Antofagasta and Aguas Blancas deposits, and season of the desert near the foot of the bend or spring between the spaces where it was held by the

round stays, that to compensate for the extra expansion, the heavy round stays, that to compensate for the extra expansion, the heavy roof-beam stays should be done away with, that there should be a number of water-tubes through the body of the fire-box, that the fire-bars should also be water-tubes, that the areas of the fire-box and grate should be large, and that the materials of construction should be cheap and easily obtainable. The American was, he said, in these respects far in advance of the English type of locomotive boiler. With regard to cost he showed that as steel fire-boxes were only helf the wight of course area and as the roise respects of only half the weight of copper ones, and as the price per ton of the former metal was about one-third of the latter, the actual cost of steel fire-boxes was from one-fifth to one-sixth the price of copper ones, although the cost of labour would be a little more in work-ing steel. The paper will be discussed on Tuesday next.

NEWFOUNDLAND-ITS HISTORY AND PROSPECTS.

NEWFOUNDLAND—ITS HISTORY AND PROSPECTS.

The immense mineral wealth of Newfoundland has already been sufficiently demonstrated by the constant and heavy sales of copper ore, at the Swansea Ticketings from Betts Cove, Tilt Cove, and other Newfoundland Mines, although hitherto comparatively nothing has been done in the way of exploration, and the amount of capital embarked has been quite insignificant, yet English capitalists know scarcely anything of the province, much less of the riches which lie dormant there. This neglect of a really attractive field for enterprise is, however, not likely to continue, since Mr. Joseph Hatton, a highly popular descriptive writer, in conjunction with the Rev. M. Harvey, a scholar and a traveller, has just completed a handsome volume of 500 pages—"Newfoundland, the Oldest British Colony: its History, its present Condition, and its Prospects in the Future." By Joseph Hatton and the Rev. M. Harvey. London: Chapman and Hall, Henrietta-street, Covent Garden—which will be ready for issue within the next week or fortnight. It is profusely illustrated, not only with engravings of some of the most attractive scenery, but with views of Betts Cove, of copper mining, and portraits of Cabot, King James I., Jacques Cartier, Sir Humphrey Gilbert, and other celebrities connected with the history of the province.

Whilst ardent sportsmen, to use Mr. Hatton's words, seek its forests and streams in pursuit of "fin and fur," the goologist is busy among its hills and valleys, and mining prospectors are busy examining the tracks of the Government surveyors. The first locomotives are running from the capital to the adjacent towns, and a tide of emigration is evidently on the eve of setting in upon its shores. No complete

tracks of the Government surveyors. The first locomotives are running from the capital to the adjacent towns, and a tide of emigration is evidently on the eve of setting in upon its shores. No complete survey of its history and condition, its mineral and other resources, and its prospects for the future has ever before been made, so that Messrs. Hatton and Harvey's book is a cultivation of hitherto unoccupied ground. The work is systematically divided into six sections—the first containing the historical record, embracing six chapters; that on the physical geography and itopography, natural history, &c., nine; on the fisheries, eight; and the agricultural resources, five. Two chapters are devoted to the mineral resources—the first treating of the pioneer work and prospects, the other of the the first treating of the pioneer work and prospects, the other of the metalliferous deposits and coal areas. To these, as well as to the concluding section on trade and railways, more extensive reference

will be made as soon as the work is issued.

PUBLIC COMPANIES-THEIR CONSTITUTION AND CONDITION.

BURDETT'S OFFICIAL INTELLIGENCE FOR 1883.

The necessity for and utility of a volume which would farnish at a glance such details with regard to the management, finances, and so on of governments, corporations, and companies whose securities are commonly dealt in on the market, as would enable the capitalist or dealer to form some idea of the solidity of the concern and the prospects of its proving remunerative as an investment has long been acknowledged, but it was ever felt that such a work prepared by a private individual would necessarily be so imperfect that it could scarcely be hoped that it would be generally accepted as an authority. Hence there was an absence of anything beyond partial attempts to supply the want until the issue of the first edition of the work of which a new edition has just been published—Burdett's Official Intelligence for 1883. By HENRY C. BURDETT, F.S., secretary, Share and Loan Department, Stock Exchange. London: Effingham Wilson, Royal Exchange; and Couchman and Co., Throgmorton-street—bringing the information down to the present date. As the publication is under the sanction of the Stock Exchange, and considering that the position in that institution which the author occupies gives him the best possible facilites for acquiring correct The necessity for and utility of a volume which would furnish at a occupies gives him the best possible facilities for acquiring correct information, the particulars supplied might be referred to with confidence, even apart from the circumstance that Mr. Burdett's accuracy and reliability have been tested by the previous volume.

The details given this year embrace a carefully revised précis of information regarding British, American, and foreign stocks; corporation colonial and provincial covernment securities; railways and provincial covernment securities; railways

ration, colonial, and provincial government securities; railways, banks, canals, docks, electric lighting, financial, gas, insurance land, mines, shipping, telegraphs, tramways, waterworks, and other commercial and industrial companies known to the London market, and dealt in on the principal exchanges. The particulars given include the name and registered offices of the companies, the voting powers conferred by the shares, the transfer fees and dates of shutting books, the capital authorized and called up the dividend declared and date conferred by the shares, the transfer fees and dates of shutting books, the capital authorised and called up, the dividends declared and date of payment, general details, with particulars of objects, &c., and names of directors and secretary, with the directors' qualification. There are well executed railway maps of Great Britain, Ireland, India, Canada, and South America; and a map of telegraph stations, so that for whatever purpose the book may be consulted the information sought will probably be found. Altogether there is an account given of nearly 3000 separate undertakings, representing about 5000 separate securities, of each of which all facts can be ascertained as to their origin and their progress or termination, as the case may be. The work will be of immense value in every place of business, and The work will be of immense value in every place of business, and each fresh issue will add to its utility to all consulting it. The work will be of imp

MINERS' PERMANENT RELIEF SOCIETY.

Although the survivors of sufferers by great colliery accidents, involving loss of lives by the dozen or the hundred, are often liberally and sometimes extravagantly provided for by the munificence of the public, the vast majority of accidents result in the loss of one or two lives only, and in these cases the survivors are almost entirely neglected; a small contribution from the club or Trades' Union, and, perhaps, the burial expenses, usually expressed in a satisface. perhaps, the burial expenses, usually representing all the assistance received. The only remedy for this is a Permanent Relief Society, supported by miners, colliery owners, and the public; and taking cognisance of all accidents, whether resulting in one or in many made in the Midland Counties, and it is much to be hoped will be carried to a successful issue both there and in all other dis-

tricts in which collieries are worked.

During the past year a committee of the Derbyshire, Nottinghamshire, Leicestershire, and Warwickshire Colliery Owners' Association has been considering and maturing plans for the establishment of a permanent relief society, which should deal with the suffering caused by fatal accidents in mines. Upon the recommendation of this committee it was decided, at the recent annual meeting of the Colliery Owners' Association, to establish a relief society on the lines suggested, the basis being certain calculations and statistics collected by Mr. George Lewis and Mr. William Saunders, who suggest that the workmen's contributions should be one penny per week for whole members, and one-half penny for half members, the contributions of colliery owners being not less than 12½ per cent. on the amount conties was 15,545,667 tons, of which 8,508,923,tons were contributed by Derbyshire. In 1881 there were 61 fatal accidents in the Midland Counties, attended with a loss of 64 lives, being one death for every

Counties, attended with a loss of 64 lives, being one death for every 780 persons employed. The average death-rate in the Midland district during the last 14 years has been 65 per annum, being an average of one death per 180,191 tons of coal raised.

Having ascertained the probable amount of relief which will have to be provided, the next consideration appears to be the probability as to the necessary funds being forthcoming. Of this there seems to be no doubt, for Messrs. Lewis and Saunders's calculations show that it may be expected that the society will have to meet liabilities amounting to 2446l. per annum. To provide for this it is estimated that the local clubs will contribute 1950l., and the masters about 244l. yearly, leaving a comparatively small margin to be provided for by the public. The object of the society is so excellent, and the amount of good which it will do, is so large that there will certainly be no the public. The object of the society is so excellent, and the amount of good which it will do, is so large that there will certainly be no difficulty in securing the necessary support from the benevolent throughout the country.

THE GUMPEL ELECTRIC LAMP.

The simplicity and economy of the Gumpel lamp has already been referred to in the *Mining Journal*, so that the mechanical details of the inventor's automatic feed and simple method of regulating the the inventor's automatic feed and simple method of regulating the arc will be interesting. The one electrode or carbon may be fixed, the other only being moveable, or when it is desired to maintain the arc in one position, both electrodes may be moved proportionally to their rate of consumption by connecting them by cords or wires passing round pulleys, as is well understood, the feeding and regulating apparatus being, however, applied only to one of them, which for clearness of description it may be assumed to be the upper carbon of a vertical lamp. This carbon passes freely down through the centre of a solenoid, which has its coil in the lamp circuit, and below this solenoid it is clamped between two rollers. One of these rollers is solenoid it is clamped between two rollers. One of these rollers is mounted in a light vertically sliding frame, and has on its axis a feed-wheel. The other roller is mounted on the vertical arm of a bell crank lever, which is pivotted on the light frame, and has its horizontal arm linked to the iron core of the solenoid above mentioned. The feed-wheel may be toothed as a ratchet-wheel having its teeth engaged by a pawl, or it may have a smooth periphery engaged by a clamping pawl, such as is used for the silent feed in many known machines. The pawl is linked to the core of a second solenoid, which has its coil of high resistance in a bypass circuit consolenoid, which has its coil of high resistance in a bypass circuit connecting the conductors to and from the lamp. These parts operate as follows:—When no current passes the solenoids are inert, consequently the core of the first descends withdrawing the roller of the bell crank, and so leaving the upper carbon free to descend till it meets the lower earlier. meets the lower carbon.

meets the lower carbon.

When a current passes the first solenoid becoming excited attracts its core upwards, and this moving the bell crank presses the roller of the bell crank against the carbon, which thus becomes clamped between the two rollers. The farther ascent of the core raises the light frame and the clamping rollers along with the carbon withdrawing it from the lower carbon, so that the arc is formed between When by the consumption of the carbons the distance between them gives the arc more than its normal resistance, a larger portion of the current passes through the coil of the second or by pass solenoid, and it attracts its core upwards. The pawl attached to this core is thus made to turn the feed-wheel and its roller partly round so as to advance the carbon. Thus, according as the resistance of the arc varies, the one solenoid core acts by clamping and withdrawing or by liberating the carbon, and the other core acts by turning or releasing the feed-wheel, and so advancing or ceasing to advance the carbon, so that the arc is automatically maintained nearly constant. Instead of employing a vertically sliding frame as above described to carry the one roller and feed wheel and the bell above described to carry the one roller and feed-wheel and the bell crank for the other roller, these parts may be carried on a lever arm pivotted to the framing of the lamp, and the bell crank may be worked by another arm carrying the armature of an electromagnet which may be substituted for the first solenoid. The carbons instead of being arranged vertically, in which case they are preferably counterbalanced, may be arranged horizontally or in other attitudes the clamping rollers and feeding mechanism nevertheless operating as above described. The end of one of the carbons may be held in which when the carbons may be held in as above described. as above described. The end or one of the carbons may be held in a metallic socket, which when the carbon is nearly all consumed, makes contact with a spring, and so closes the external circuit, excluding the lamp from it, until this contact is broken for the introduction of a fresh carbon.

THE DOLCOATH DISTRICT.

Is it not remarkable that a whole district situated near Camborne should be called after the celebrated Dolcoath Mine. Price published his too little known "Mineralogia Cornubiensis" in 1778. At that time Dolcoath was worked as "Bullen Garden," and was then little more than 100 fathoms in depth. Price published the parallel section of Bullen Garden Mine, in the parish of Camborne, Cornwall, and explanation of its workings, under the title of "A general display of a mine by notes of reference to and expla-nation of every part of a whole sheet parallel section of Bullen Garden Copper Mine, wherein is exhibited all the machinery and workings from grass to the sump, showing every pump, saller, ladder, drift, stope, end, winze, and stull in the mine," and right well will the perusal of the description repay anyone desirous of knowing the magnitude and importance of modern improvements in machinery for working mines. The old fire-engine, one of the first pumping-engines erected in Cornwall—the working by means of two waterwheels fixed underground, and discharging their water at the adit; all have their interest. That the mine was also known as Dolcoath is clear from the fact that it is in another part of the work referred to as " Dol-coth (the old valley or dale), the name of a great mine in Camborne, Cornwall.'

It is a curious fact that Borlase, in his "Natural History of Cornwall," published in 1758, takes no notice of Dolcoath, but publishes a plan of Pool Mine, which one inclines to think is the celebrated adjoining mine of Roskear, and not East Pool.

adjoining mine of Roskear, and not East Pool.

It is to be regretted that Price does not give the then past or present returns of ores raised in Dolcoath. Many interesting treatises have been written by local men on this district, one a lecture of considerable interest by a late manager of Dolcoath, Capt. Charles Thomas, the father of the present manager, Capt. Josiah Thomas, which might well be re-published. Tregellas says: "Probably Dolcoath Mine is one of the deepest and most ancient in Cornwall, and was been responsed the most typical mine in Cornwall. It is now may be pronounced the most typical mine in Cornwall. It is now more than 340 fms. deep, and has sold ore to the value of 6,500,000*l*. sterling, and never looked better than it does now. The average value of a fathom o' ground is 150l.'

The Dolcoath lodes have produced large quantities of silver ore—indeed the richest deposit ever found in Cornwall, and had its own smelting-house on the mine for the reduction of these ores.

From the following list of 13 closely adjacent mines it will be seen that their aggregate price has in four years steadily risen from 454,1951. to 1,371,0611. their market value in Japuary, 1883. wing the increase in their value biennially from 1878 to 1883: ist of 13 mines immediately adjoining or adjacent to Dolcoa diately adjoining or adjacent to Dolcoath.

inst of to mines in	1878.	1880.	1883.
Carn Brea	£35,000	£110,000	£51,000
Cook's Kitchen	4,000	26,950	97,625
Dolcoath	128,800	. 244,875	289,980
East Pool	60,800	. 23,400	336,000
South Condurrow	70,415	. 67,353	58,169
South Crofty	3,800	. 22,000	20,430
South Frances	7,500	. 22,528	48,000
Tincroft	54,000	. 126,000	40,500
West Basset	18,000	. 93,000	39,000
West Frances	7,500	. 22,528	16,404
West Seton	54,000	22,000	42,000
Wheal Agar	25,500	87,500	105,000
Wheal Grenville .	13,000	66,000	49,500
	Contraction of the last of the		The same of the sa

£454,195 £1,116,731 £1,183,608

Dolcoath has paid in dividends over 41,000L, and East Pool over 3,000L for the year 1882.

Attention is now drawn to this district from the fact that the ground under the town of Camborne, of which for local reasons now removed it has heretofore been impossible to obtain a lease, has now been obtained. In this ground a shaft exists to the depth of 180 fms., which is in excellent condition, and from which cross-cuts can be extended to intersect the Dolcoath lode in the centre of the mine at a comparatively small expense. The mine being dry to this depth, and the shafts being in good repair, the work done is immensely valuable, not only in saving money but time. Thus the long-coveted Town lode will be laid open, and the Dolcoath lodes, rich up to the boundary of the proposed Wheal Camborne, will be laid open, and a great impetus given to the mining industry of this celebrated district.

WATSON BROTHERS' MINING CIRCULAR.

WATSON BROTHERS.

MINEOWNERS STOCK AND SHARE DEALERS 1, ST MICHA LS ALLEY, CORNHILL, LONDON.

Nearly twenty years ago the weekly information which had previously been published for a great number of years in Watson Brothers' Mining Circular was transferred to the columns of the Mining Journal, with the following announcement.

In the year 1845, when mining was almost unknown to the general public attention was first called to its advantages, when properly conducted, in the "Compendium of British Mining," commenced in 1837, and published in 1843, by Mr. WATSON, F.G.S., author of "Gleanings among Mines and Miners," "Records of Ancient Mining," "Cornish Notes" (first series, 1862), "Cornish Notes" (second series, 1863), "The Progress of Mining," with Statistics of the Mining Interest, published annually in the Mining Journal for 21 years, &c., &c. In the Compendium, published in 1843, Mr. WATSON was the first to recommend the system of a "division of small risks in several mines, ensuring the success in the aggregate," and Messrs. WATSON BROTHERS have always a selected list on hand. Ferhaps at no former period in the annals of mining has there been more peculiar need of honest and experienced advice in regard to mines and sharedealing than there is at present; and from the lengthened experience of Messrs. WATSON BROTHERS they are emboldened to offer, thus publicly, their best services and advice to all connected with mines and mining.

Messrs. WATSON BROTHERS are daily asked their opinion of particular mines, as well as to recommend mines to the best of their judgment and ability, founded on the best practical advice they can obtain from the mining districts, but they will not be held responsible, nor subject to blame, if results do not always equal the expectations they may have held out in a property so fluctuating as mining.

The great extension of mining business, the difficulty so often compalaned of

amaya equation caspectations they may have taken to an approperly as a mining.

The great extension of mining business, the difficulty so often complained of by country shareholders in getting accurate and disinterested information as to the state of Cornish and Foreign Mines, and of the financial and real position of mining companies generally, have induced Messrs. Warson BROTHERS to make their Circular now published in the Mining Journal more extensively known, and

o state—
That they issue daily to clients and others who apply for it a Price List (as any lied to most of the London and country papers), giving the closing prices or

That they issue daily to clients and others who apply for it a Price List (as supplied to most of the London and country papers), giving the closing prices of mining Shares up to Four o'clock.

They also buy and sell shares for immediate cash, for the usual fortnightly settlement in all Mines dealt in on the Mining and Stock Exchanges, at the close market prices of the day, free of all charge for commission. They deal also, on the same terms, in the Public Funds, Railways, Telegraphs, and all other Securities dealt in on the Stock Exchange.

Having agents in all the mining districts, they are constantly getting mines inspected for their own guidance, and will also obtain special reports of any particular mine for their clients, for the inspecting agent's fee of £2 2s.

Messrs. WATSON BROTHERS take this opportunity of stating that on July 1 they took into partnership Mr. H. J. DEAN, who has been for a number of years associated with the firm, and Mr. W. H. H. WATSON, who has had some years experience of practical mining and engineering in Cornwall, and is the son of the senior partner. The firm will still be called that of "Watson Brothers."

The number of weekly communications received from almost every part of he world in regard to remarks in this Circular indicate so plainly how much they are read (and, we trust, appreciated) that they will be continued by the ame writer.

Indeed, while new blood is introduced to attend to the more laborious and mechanical details of the business, the old will have more time to devote to their different departments.

An extraordinary general meeting of Parys Copper Corporation has been called for Monday next, to authorise the directors to issue the 7667 reserve shares at 10s. per share (1l. paid). They had power under the Articles of Association to issue up to a certain number of shares at a discount or otherwise, and nearly 2000 of that lot are still unissued; but as the directors wish to issue 3000 at least, it is necessary that a special resolution should be passed authorising the issue of all, or any part, of the 7667. We hope the shareholders will consider before the meeting that it is absolutely necessary the directors' hands should be strengthened by the issue of these shares, and to save the mine they must be taken up. We have a good cause, and should fight it out.

As a rule the copper ore of Cornwall is not so rich as it used to be, and which may be in some measure accounted for by the greater depth attained by many, if not most, of the mines. Shallow deposits are generally the richest. In October, 1845, some remarkably rich ore was sold, the richest indeed we ever heard of from Cornwall. Penstruthal sold some at 60l. per ton; Carn Brea, in November of same year, at 35l. per ton; Levant at 40l.; and St. Ives Consols at 40l. per ton. There can be no doubt that much of the depression existing in the Mining Market at the present time is coving to the existing in the Mining Market at the present time is owing to the enormous losses in Indian gold mines. It was calculated that three millions at least was invested in them, most of which went to pro millions at least was invested in them, most or which went to promoters and others, and then many went to high premiums, and are now at a discount. Again, numbers of persons, attracted by the quoted premiums, and finding that only 2s. 6d. had to be paid on application in order to get shares, applied for hundreds of them, thinking to sell them and pocket the premiums at once; and failing in this, they found themselves called upon to pay calls up to 1t. per share, at hing they neither anticipated nor were prepared for. -a thing they neither anticipated nor were prepared for.

The want of a good discovery also in Cornish Mines is much felt inst now. Another rise, such as there was in Crebor, from 1s. 6d. to 13l. per share in a few months, in some other low-priced shares, would give a general fillip to the market; and at present the reports of agent, and what we hear, would lead us to expect the earliest improvements on discoveries in New West Caradon, Langford, or West Crebor.

South Penstruthal is also well spoken of, and there is a fine lode for copper in the shaft.

At Prince of Wales the 102 east is looking better.

A great improvement is taking place in the 50 east at East Blue Hills; lode 3 ft. wide, and looking like being near a good course of

tin.

The sampling at Wheal Crebor (413 tons) assays as follows:—
88 tons 5½ per cent., 87 tons 5¾, 86 tons 8½, 80 tons 5¼, 72 tons 5¼, average 6¼ per cent.; this we estimate will realise 1400t. The 86 tons of 8½ per cent. produce—which is the richest parcel got from the mine for some time—is from the bottom of the 120, east of No. 2 winze. This is an important fact.

South-East Wynaads are now quoted under 1; a few weeks ago they were quoted 3 to 3½. Glenrocks at one time, we believe, were very high, and are now 10s. to 15s. We are not acquainted with the prospects of either, and cannot therefore answer our correspondent's queries. La Plata used to nay monthly divided queries. La Plata used to pay monthly dividends, and the fall is owing to their cessation as monthly dividends. Good returns, however, appear to be made.

Santa Barbara, since 1875, has made 29,000*l*. profit on a paid-up capital of 26,016*l*. 10s. This was from the Pari Mine, Brazil. For some time past a large expenditure has been going on (nearly 12,000*l*.), for new machinery and other works, and when completed, in about four months, and the mine opened out, the directors anticipate making 10,000*l*. a year profit. In the meantime they, like other directors, find the difficulty of issuing fresh shares in these times, and are now offering to the shareholders or the public 10,000*l*. 10 per cent. mortgage debentures of 50*l*. cach to be paid off on Jan. 1, 1888. The mines have since 1875 returned gold to the value of 133,582*l*. 15s. 9*l*. which, as before stated, made a profit of of 133,583% 15s. 9d., which, as before stated, made a profit of 29,271% 19s. 1d., all of which was divided except a reserve fund of 3000%, and a small balance of 489%.

Original Correspondence.

CALLAO BIS GOLD MINING COMPANY.

CALLAO BIS GOLD MINING COMPANY.

SIR,—I beg to enclose you a copy of a letter which has been received by this company from Mr. George Attwood, their late consulting engineer, and shall be glad if you can find space for same in your next issue.—London, Feb. 2. J. H. THORNTON, Secretary.

SIR,—In a letter signed by Mr. C. C. Downes in the Mining Journal of Jan. 27 that gentleman, in referring to the cutting of the Callao vein, appears to forget that I was the directing superintending engineer and geologist for the opening of the Callao Bis Mine and that during my stay in Venezuela he was instructed to act under me. Shaft No. I was started after my inspection and by my orders, and in that shaft the Callao vein has lately been cut. I refer you to the following extract from my contract with the Callao Bis Gold Mining Company, Limited, dated Sept. 29, 1880:—"The said George Attwood shall and will act as the consulting engineer of the said company and shall and will, not later than Oct. 2 next, proceed to the district of the said mines for the purpose of directing as superintending engineers. the said mines for the purpose of directing as superintending engineer and geologist the opening of the Callao Bis Mine."

*Ulster-place, Regent's Park, Feb. 1. GBORGE ATTWOOD.

HERODSFOOT SILVER-LEAD MINE SIR,—The following, which will be interesting to many of your readers, is a copy (the original certificate can be seen at my office) of the assays by Messrs. Johnson, Matthey, and Co., made for lead and silver from four samples of ore from different points of operations, referred to in the agent's report of last week:—

		CE	RTIFICATE	OF	ASSAY.	tton Garden,	Jan. 27,
No. 1,	Herodafoot	Mine		Prod	per cent.	l. 0:	ss. Silver.
No. 2 No. 3		3.9		65.2	83	*************	31.200
	39						30.
No. 4	99	99	************		Per ton of	20 cwts.	39.

Per ton of 20 cwts.

Johnson, Matthey, and Co.

It is of the utmost importance that sample No. 1 came from a new point of development. Having cleared the 160 fm. level north, and driven it through the slide or cross-course so recently as last December, a stope was commenced in the back of the level, from which stope the above rich ore was broken; the lode is here standing in whole ground for 30 fathoms high and 150 fathoms in length to the north.

ground for 30 fathoms high and 150 fathoms in length to the north. Some of the richest stopes said to exist in the mine, but which have been abandoned for, I am informed, 20 years, in consequence of the water being at that time "too quick," have quite accidentally become again accessible through the extra pressure or weight of water that has flowed down during the late excessive floods of rain into some old workings, unable to resist the extra pressure, breaking away, but which almost flooded the mine.

The manager writes: "Last Friday night we were almost flooded with water, and could not tell where it came from; it has taken our engine working six strokes per minute for three whole days to fork it. Have since discovered that the water broke through an old stope in the 127 fm. level north, down to the 147, and thence into the 160 fm. level. This ground is now standing dry. Between the 147 and the 127 level there are three stopes, commenced by the late company, who were obliged to abandon them in consequence of the water being too quick, now available, the stopes produce rich silver company, who were obliged to abandon them in consequence of the water being too quick, now available, the stopes produce rich silverlead ore. We find the lode standing in places 5 ft. wide. All above the 127 has been taken away, proof of the lode having been valuable, We are putting in a footway from the 160 to the 147, in order that stoping may be commenced at once in this unexpected and extensive run of dry ground. We believe we have many hundreds of fathoms of dry orey ground here to take away."

It is rather too soon to estimate the additional value that, though so sudden, at the same time, it must be considered, under the circumstances, fortunate catastrophe, has been added to the mine. When the agents have fully realised to what extent valuable ground has been freed of water they will send their report, which shall be gublished without delay.

GRANVILLE SHARP.

GRANVILLE SHARP.

GRANVILLE SHARP.

Secretary of Herodsfoot Mine.

Queen Victoria-street, Feb. 1.

COMPOUNDS FOR ELECTRICAL INSULATION.—An invention, which COMPOUNDS FOR ELECTRICAL INSULATION.—An invention, which appears to embrace the use of almost any material whatever, in any manner preferred, is claimed for Mr. G. S. Page, of Stanley, U.S.; but the English patent has not been granted for it. He states that he takes any or all of the mineral substances included in a long list: metalic oxides, silicates, phosphates, aluminates, borates, carbonates, sulphur, selenium, or compounds of these; sulphides, &c.; compounds of tungsten and the like minerals; pseudo carbons and carbon in various forms in a state of fine division and suitably dried by heating, which incorporates with the various organic substances either singly or in combination obtained from and by the preparation of cersingly or in combination obtained from and by the preparation of certain portions of coal tar, coal tar oil mineral oil or shale oil napthaline anthracene, pyrene chrycine and their homologues and derivatives, anthracene, pyrene chrycine and their homologues and derivatives, from bitumen, natural asphalt, colophony, resins, natural gums, and mineral wax, and hydrocarbons, varieties of guttaperchas and cautchoucs, camphor in various forms or varieties, cellulose in various forms, as pyroxiline, &c.; also so-called waste organic substances, containing nitrogen in an albumenoid form of combination, tannin and other substances, containing tannic or tannogallic acid, so called; leather and horn substances, &c., the said organic substances being for this purpose obtained and employed in a liquid, semi-liquid, or gelatinous condition, as may be brought about by fusion or the employment of solvents. He proposes that in cases where great density or hardness in the insulating material by fusion or the employment of solvents. He proposes that in cases where great density or hardness in the insulating material are not required as for example in covering land lines, the said substance or preparation may be employed direct. For the formation, manufacture and fashioning of material or instruments of any particular or required hardness, density, or plasticity, he proposes to increase the hardness and elasticity of the insulating material by the application of pressure in graduated degree and by any ordinary apparatus or instrument for the purpose of applying pressure, but preferably by the application of hydraulic pressure at a more or less elevated temperature, depending on the special use and application of the insulating material. In this manner he obtains a highly electrical and heat insulating material of any desired elasticity and hardness, which can be fashioned and worked to any required form, hardness, which can be fashioned and worked to any required form, and has a high degree of incombustibility.

IMPROVEMENTS IN TELEPHONES.—A novel construction and arrangement of a telephonic receiving instrument in combination with any known transmitting instrument has been patented by Messrs. Alabaster, Gatehouse, and Kempe, of South Croydon.
At each end of a suitable case they fix a plate and stretch between these plates an iron or steel wire, round which are closely wo coils of insulated wire. One of these coils which may be or convire, connects the poles of a local battery, the other coil, which is preferably of fine wire, is connected to the line at its one end and to earth at its other end. When electrical undulations, produced by pulses of sound on a transmitting instrument of any known kind, are sent along the line, the iron or steel wire of the receiving instrument above described is acted on, and its plates are caused to coils of insulated wire. One of these coils which may be of strument above described is acted on, and its plates are ca strument above described is acted on, and its plates are caused wibrate, reproducing the sounds which actuate the transmitter. It is convenient to enclose the two plates of the instrument in casings, and lead from these casings flexible tubes, so that the sounds can be conveyed to both ears. A transmitting instrument of any known kind can be connected into the wire of the local battery, and this transmitter will serve for sending to the distant station. Instead of employing only one wire to connect the plates several wires may be used sead doubt which called ac above described, by wires connecting the transmitter. employing only one wire to connect the plates several wires may used each doubly coiled as above described, by wires connecting respectively to the local battery and to the line. Also instead of employing only two plates, several pairs of plates may be employed, each pair connected by one or more iron wires coiled as above described, and these plates may be placed face to face at each end of the casing, the wire for the outer plates in each case passing freely through holes in the inner plates. In some cases the iron wire may have only one insulated wire coiled on it, the said wire being cos

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931 ton during year; here di 190 too ingots —nil, to be a

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nected to the line and to earth directly or through a local battery or transmitter or both. The iron or steel wire may be attached at its one end to the casing of the instrument, and at its other end to a called plate. single plate.

THE TIN TRADE.

Messrs. EBELING and HAVELAAR (Botterdam, Jan. 31) write:—We have no improvement to report in our tin market, as far as prices are concerned. There has, however, been at times rather brisk buying, chiefly for covering open contracts. The heavy increase of stock in Holland being fully compensated by favourable London figures, our holders have been anything but pressing sellers, and the giving way in price has consequently been trifling that the starts. We think we shall not be very wrong in prognosticating that the sours of prices will chiefly depend upon the shipments from that part of the globe, there being no increase of production reported from any other quarter straits shipments should, therefore, be carefully watched by all those interested in the article. With regard to the world's consumption of tin, it may be safely assumed that the present year will not vary much from its immediate predecessor. The Dutch Trading Company's first sale in 1833 took place yesterday, when some the bush production are sold from \$61, to \$6½ fl., average \$5½ fl. Next sale will be held towards the end of March. The demand for Banca has been limited throughout the month. At the outset sales of cash parcels were being made at \$7 fl. we subsequently improved to \$3 fl., which advance, however, was again speedly lost, Since the sale there are buyers at \$5½ fl. Frices of Billiton have frequently factored during the month. The opening price was \$5½ fl. for 14 day's prompt and \$1 fl. for forward deliveries, when an improvement in value took place, \$5 fl. being paid for April delivery. The movement has since been downward, as low \$1 fl. being paid for April delivery. The movement has since been downward, as low \$1 fl. being accepted for prompts failing due on the 1st prox., whilst \$5½ fl. was taken for both April and May delivery. The movement has since been downward, as low \$1 fl. being accepted for prompts failing due on the 1st prox., whilst \$6½ fl. was taken for both April and May delivery. The turnover has been large. Looking at thi

Date of Trans	1883.		1832.			
Import in JanuarySlabs	7,511	*****	16,935		10,261	
Deliveries in January	7,628		6,900		9,228	
Stock second hand	*43,618		43,544		50,265	
Unsold Stock	61,729		52,656		45,797	
Total stock	105.347		96,200	101100	96,062	
AfloatPeculs	8,100		4,800		4,900	
Import in JanuarySlabs	27,300		12,448		8,200	
Deliveries in January	6,011	*****	7,677			
Charle	*73.608		29,787		55,239	
			18 000		11 000	
Quotation, Jan. 31—Banca	56 1/4 fl		651/4 fl	******	54 1/2 fl.	
Billiton	56 fl		65 1/4 ft		54 1/2 fl.	
ormbined returns of Bo						0

These preceding combined returns of Banca and Billiton for 1823, compared with those for 1852, exhibit—An increase of the import for January of 170 tons; a decrease of the deliveries for January of 29 tons; an increase of the stock second-hand of 1372 tons; an increase of the unsold stock of 283 tons; an increase of the total stock of 1655 tons; a decline of the quotation of Banca of 154, per ton. The Government Beturns for the month of November are as follows:—

EXPORT OF IN FROM HOLLAND.

		No	vem	ber			Elev	en	Mon	ths	
1	882.	. 1	881.	18	880.		1882.		1881.		1880.
o GermanyTons	430		317		154	********	3309		3575		2989
Pagland	10		3		95		92		352		1273
Relgium	140		98		137	*******	1000		1707		2335
France	10		44		21		313		477		581
Hamburg	26		36	***	59	*******	469	***	629		707
The United States	13		-	***	_	*******	86		139		368
Other countries	71	***	52	***	26	********	498		783	***	703
Total	700		550		492		5767		7662		8956

Messrs. STRAUSS and Co. (London, Jan. 31) issue the fol	TOWING
Statistics of Tin :- Dec. 31, Jan. 31, Jan.	31,
1882. 1883. 188	2.
Straits and Australian, spot Tons 5,020 4,598 6,2	66
landing 463 1.041 5	R 7
Straits, affort 575 928 1,2	10
Australian aflost 1,694 1,288 1,9	22
Ranca, on warrants 1,018 1,363 1,3	61
Billiton, anot	40
afloat 1,754 880 6	70
Australian tin in Holland 5 5	90
Stocks in America, including quan-	
tity affoat 3,410 3,660 2,6	50
Total 15,574 16,063 15,6	96
Prices of Straits and Australian £93 0 £92 0 £10	10
Deliveries during month in London 1,140 1,257 1,5	\$9
Holland 404 325 4	75

"Total" "Holland... 404 325 475
1,542 1,552 2,064
Shipments during the month from Straits to London 850 tons, from Australia to London 855 tons, from London and Holland to America 406 tons, from Straits to America 850 tons, from Australia to America 50 tons. Banca in Trading Company's hands and afloat 2435 tons.

THE COPPER TRADE.

Messrs. Harrington, Horan, and Co. (Liverpool, Jan. 31)—
Chili copper charters for second part of this month are to-day advised as 200 tons ine, of which 650 tons bars and ingots, together with 650 tons furnace material for England, and 1000 bars tons for Continent. Price of bars was \$18.20, and exchange 35½d. During the past fortnight Chili bar market has been extremely dull and with little business done, prices have dropped to 55½. 10s. apot, and 66½. 55, forward. Market to-day is weaker on charter news, and we close with sellers at 65½ for good ordinary brands on the spot. The sales of furnace material comprise.—A£ Liverpool: 35 tons Chili regulus ex Payta. at 13s. 6d.; 7 tons Canadian regulus to arrive, at 13s. 3d.; and 240 tons Italian ore (low produce) to arrive, at 12s. 9d.—At 8 wanses: 226 tons Bolivian ore, and 290 tons Bolivian regulus, ex Lord Marmion, at 13s. and 13s. 3d. per unit respectively.—Precipitate: 150 tons Rio Tinto, at 8 wanses at 13s. 74d, per unit. There has been no Swansea asle during the past fortnight. Import of Chili copper during the past fortnight 520 tons, against 133 tons fine same time last year; delivery, 531 tons fine, against 812 tons fine as meet time last year; delivery, 531 tons fine, against 456 tons fine same time last year. Arrivals here during the fortnight of S. A. produce—Arica, s., from Valparaiso, du., 100 tons bars; Tropique, s., from Valparaiso, via Havre 95 tons bars, 250 tons lagots; chevy Chase, from Valparaiso, and Los Vilos, 75 tons bars. At Swanses.—36. Stocks of copper (Chilian and Bolivian) in first and second hands, likely 25 be available, we estimate at—

Ores. Regulus.—Bars. Ingots. Barilla.

Liverpool.—62. 842 — 4,172 — 7,795 — — 580 — 580 — 50

Swansea					
Total	tons fine	copper, age	inst 25.78	38 tons J	an. 15 : against
25,511 tons Jan. 31, 1882; 3 Stockof copper contained fine, against 2280 tons Jan	in other	foreign ore Stock of	and Spani Chili bar	ish precings and in	pitate, 3174 tons
Havre, 28 tons, against 25 Chili in Havre, 125 tons	85 tons Jar fine, agai	an. 31, 1882 nuary 31, 18 inst 590 ton	82. Stock Ban. 31	of Coro (k of cop l, 1882.	Coro Barilla in oper other than Stock of Chili
copperations and chartered 1882. Stock of foreign of against 7850 tons Jan. 31,	l for to da	te.11.477 to:	as fine, ag	ainst 12.2	00 tons Jan. 31.

Messrs, HENRY R. MERTON and Co. (Leadenhall-street Jan 31)

, and Co. (Leadenhair-street,	O Chillian Co.
issue the following Statistics of Copper:—	
Stocks in Europe :-	
Chili Land View	
Chili bars, Liverpool and SwanseaTons	22,801
Chili ingots, Liverpool and Swansea	270
Chili ores and regulus, Liverpool and Swansea (fine)	2,306
Other furness at 4 T	0.104
Other furnace stuff, Liverpool and Swansea (fine)	3,174
London, Foreign copper (chiefly Australian) and Landing	4,199
Chill bars, ingots and Ravilla in Havro	3,360
Other copper in Havre	125
Affoat, and chartered from Chili to Europe (advised by mail):	200
Ores and chartered from Chin to Europe (advised by mail):	
Ores and regulus (fine)	1,860
	650
Bars and ingots	2,450
Afford from A	2,730
Aftest from Australia to Europe (advised by mail):	
	1.091
By cable: Fine copper	850
Total	47 421
21 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -	75,761
Price of Chili bars, 65l, per ton.	

Messrs. RICHARDSON and Co. (Feb. 1), write :- The stock of Chili

There is a general impression that the capital, being so very small the shares are intrinsically worth more than present quotations, and a further advance is consequently looked for. A full report upon the mines is expected this month from the Superintendent of the Colombian Hydraulic Company.

the mines is expected this month from the Superintendent of the Colombian Hydraulic Company.

LIST OF SMELTING, METAL EXTRACTION, ARSENIC, AN BARYTES COMPANIES IN THE UNITED KINGDOM. Thomas Bolitho and Sons, Chyandour, Ornwall.

Williams, Harvey, and Company, Trethelian and Mellanear, Cornwall. R. R. Michell and Company, Tretherle, Pensanee Cornwall.

Basoe Bridge Company, Cavedras and Treloweth, Cornwall.

R. R. Michell and Company, Tretherle, Pensanee Cornwall.

Calenick Tin Smelting Company, Calenick, Cornwall.

Calenick Tin Smelting Company, Calenick, Cornwall.

Calenick Tin Smelting Company, Calenick, Cornwall.

Charlestown Tin Smelting Company, Calenick, Cornwall.

Charlestown Tin Smelting Company, Calenick, Cornwall.

Charlestown Tin Smelting Company, Calenick, Cornwall.

Vivian and Sons, Hafod, Swansea.

Pascoe Grenfell and Sons, Middle Bank, Swansea.

Mason and Elikington, Pembrey.

Copper Miners' Company, Londore, near Swansea.

Mason and Elikington, Pembrey.

Copper Miners' Company, Landore, near Swansea.

Mason, Keates, and Company, St. Helen's.

Landore Copper Company, Landore, near Swansea.

Newton, Keates, and Company, St. Helen's.

Bibby, Sons, and Company, St. Helen's and Liverpool.

W. Roberts, jun., St. Helen's.

James Keys and Son, Whiston Works, Cheadle, Staffordshire.

Cape Copper Company, Swansea.

Ravenhead Copper Company, Liverpool.

Pontifer and Wood, Garratt Copper Mills, Surrey.

Bewick and Partners (Limited), Hebburn, Newcastle-on-Tyne.

Nevill, Druce, and Company, Landelly.

Runcorn Smelting Company, Runcorn.

Sheldon, Bush, and Panther Smelting Company, Blackswarth, near Bristol.

C. Pass and Son, Belminster Works, Bristol.

Coke, Blackett, and Company, Liverpool.

Pontifer and Wood, Farringdon Works, London.

Logan Edward, Birkenhead

Peter Glover and Robinson, Widnes Lead Works, near Warrington.

White Rock Works, Swansea.

Enthoven and Sons, London.

Pontifer and Wood, Farringdon Works, London.

Coke, Indecter, and Company, Bristol.

Coke, Blackett, and Company, Bristol.

Coke,

Executors of Sir G. W. Denys, Barts, Surficially, Surficial The Mining Company of Ireland (Limited), Dublin.

E. C. Goodhart and Company, Penclawdd Lead Works, near Swangea.

ZINC.

Pascoe Grenfell and Sons, Upper Bank Spelter Works, Swansea.

Bagilt Zinc Company,

Vivian and Sons, Swansea.

Kenrick and Son, Wynn Hall, Spelter Works, Ruabon.

Charles Titterton, Phoenix Zinc Works, Warrington Junction.

Dillwyn and Company, Swansea.

Soseph Thompson, Spelter Works, Carlisle.

Ryland Brothers, Warrington.

Crown Zinc Company, Swansea.

Villiers Spelter Company, Morriston, Swansea.

Swan and Company, Maryhill, Glasgow.

Swansea Vale Spelter Company (Limited), Swansea.

ARSENIC.

Cornwall Arsenic Company, Hayle and Bissoe Bridge, Thomas Willis Field, Managing Partner, Marazion, Cornwall.

Devon Great Consols Mining Company (Limited), Tavistock.

J. B. Drayton and Company, Harrowbarrow, Callington.

English Arsenic Company, Raweworthy, Gwinear, Cornwall.

Palmer and Hall, Morriston, Swansea.

A. O. Hadland, Swansea.

Plympton Mining and Arsenical Company (Limited).

Okel Tor Arsenic Works, Calstock.

J. Paynter and Trythall, Bissoe Chemical Works, Devoran, Truro.

Holmbush Mining Company, Callington, Redmoor.

Greenhill.

Trevince Chemical Company (Limited), Scorrier, Cornwall.

PYRITES PRECIPITATE COMPANIES.

Duncan McKechnie, St. Helen's.

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Birmingham.

Glasgow and Cardiff.

N. Mathleson and Company, Widnes.

Hebburn; Newcastle.

Birmingham.

Glasgow and Cardiff.

Birmingham.
Glasgow and Cardiff.

N. Mathieson and Company, Widnes.
The Runcorn Soap and Alkali Company, Runcorn.
Wigg Brothers and Steele, Runcorn.
Newton Heath. Copper Smelting Company, Manchester.
Muspratt Brothers and Huntley, Flint.
William Russell and Company, Newcastle.
The Bede Metal and Chemical Company, Jarrow, Newcastle.
W. Hunt. and Sons, Leatrook, Wednesbury.
William Hunt, Brother, and Co., Castleford.
Harrison, Blair, and Company, Kearsley, Bolton, Lancashire.
Henderson and Company, Irvine.
H. Hills and Sons, Newcastle.
Eyton Copper Company, Mostyn.
Morris and Company, Dorcaster.
W. D. Pochin and Company, Newcastle.
South Devon Metal and Chemical Company, South Down, Devonport.
H. G. Lord and Company, Oalstock.
Holmbush and Kelly Bray Company, Callington.
Gibbs, Jackson and Company, Calstock.
Bartyes Manufacture.
Blackwell, George G., Garston, Llverpool.
Pegg, Harper, and Company, Derby.
Ellam, Jones, and Company, Derby.
Stevens Brothers, Matlock Bath.
C. H. Garton, Lumsdale, Matlock Bridge.
Wm. Ha-ley, Bonsall, near Matlock Bath.
E. Brown, Bonsall, near Matlock Bat

Wivian and Sons, Swansea.

Johnson, Matthey, and Company, London.
Brown and Wingrove, Wood street, Cheapside.
M. Rothschild and Co., Royal Mint Refinery.
SILIVER ORE SMELTERS.

Northerm and Sons, Swansea.

Nevill, Druce, and Company, Lianelly.
Raphael and Company, Thomas street, Limehouse.
Sheffield Smelting Company, Sheffield.

E. W. Oates and Co., Sheffield.

Cookson and Co., Newcastle-on-Tyne.
Hallett and Co., Norway Wharf, London.
Johnson, Matthey, and Co., Hatton Garden, London.
J. J. Pratts and Wood, Millwall, London.
J. J. Pratts and Son, Kingland-road, London.
NICKEL AND COBALT.

J. J. Pratts and Son, Kingiand-Foad, London.

M. H. Hussey Vivian, M.P., Swansea.
Stephen H. Barker, Birmingham.
Henry Wiggin and Company, Birmingham.
W. Webb and Company, Aston, near Birmingham.
Sir J. Mason, Bromford, Birmingham.
J. H. Williamson, Stoke-upon-Trent.
Rawlins and Son, Liverpool.

Oktra Gold.—A considerable demand has sprung up for these start improving prices, the latest quotation being 1½ to 1½. a full report of the Vienna meeting of the Institute, together with

the papers read and discussion upon them; whilst in the appendix there is a good account of the visits and excursions, and an obituary which is unfortunately unusually heavy, embracing the names of William Menelaus, Sir H. W. Ripley, Lord Frederick Cavendish, A. L. Holley, Thomas Aveling, William Newmarch, J. T. Barkley, C. P. Stewart, Charles Smith, W. S. Roden, William Neilson, William Barningham, Alfred Kitching, H. Currer Briggs, and J. G. Chapman. The second half of the volume (London: Spon, Charing Cross) is occupied by Notes on the Progress of the Iron and Steel Industries of the United Kingdom in 1882, by the general secretary—Mr. J. S. Jeans—which contain a very excellent and interesting outline of all that concerns the iron trade which has been published during the year. Reference is greatly facilitated by Mr. Jeans's admirable classification of the paragraphs according as they relate to ores and fuel blast furnace practice, manufacture of steel, chemical properties of iron and steel, mechanical properties of steel, uses of steel, or miscellanea, and arranging the foreign record with equal attention to system.

SECONDARY BATTERIES.—The invention of Mr. LUDWIG EPSTEIN, of High Holborn, consists in forming each cell of the battery of an outer vessel of wood or other material, and a porous cell within it. Between the exterior of the porous cell and the sides of the outer vessel he places a spiral scroll of sheet lead of several convolutions. Within the porous cell he places a similar scroll of a smaller diameter. These scrolls form the electrodes of the cell. To charge the battery he prepares saturated solution of permanganate of potash, and to this he adds 10 per cent. of sulphuric acid and 10 per cent. of methylated spirit. He forms the battery by passing through it the current from a dynamo electric machine or other source of electricity. After the connections have been reversed a few times the battery is ready for use in the ordinary manner. According to another method he prepares his cell with a number of flat plates of lead parallel to each other, and packed with powdered charcoal between. He couples other, and packed with powdered charcoal between. He couples together the alternate plates, charge the cell with the permanganate solution, and apply the current as before. The passage of the current causes the metal of one set of plates to become rapidly peroxidised, and on the reversal of the current this peroxide is reduced to a spongy metallic state, whilst the other plates in turn are peroxidised.

REGISTRATION OF COMPANIES-Continued.

REGISTRATION OF COMPANIES—Continued.

THE ISLE OF WIGHT TRADING COMPANY (Limited).—Capital 30,000l., in shares of 5l. The business of coal factors, coopers, ship owners, ship and yacht brokers, and general agents, &c. The subscribers are—H. Elford, the Jerusalem, 70; D. Macgregor, Junior Carlton Club, 70; D. Murray, Union Club, 60; J. Irving, Cowes 100; R. Varty, Liverpool, 80; T. Durant, 7, Guildhall Chambers, 3; G. Metcalf, 22, Bread-street, 70.

CARGO FLEET IRON COMPANY (Limited).—Capital 200,090l., in shares of 50l. The following businesses:—Ironmasters, colliery proprietors, mineowners, farmers, shipbuilders, merchants, manufacturers, and traders for all purposes. The subscribers (who take one share each are—H. F. Swan, Newcastle-on-Tyne; J. Swan, Newcastle-on-Tyne; S. F. Swan, Newcastle-on-Tyne; J. G. Swan, Middlesboroughon-Tees; C. W. Bell, Yewhurst; L. R. Stevenson, Oxton; J. J. Burton, Middlesborough.

W. Bell And Company (Limited).—Capital 80,000l., in shares of

Burton, Middlesborough.

W. Bell and Company (Limited).—Capital 80,000%, in shares of 1%. To acquire the goodwill and carry on a patent medicine manufacturer's business, situated at Reading. The subscribers are—H. C. Herbert, Reading, 25; R. Squire, Reading, 10; J. L. Belcher, Reading, 20; E. E. Wells, Reading, 10; T. Weaver, Bracknell, 50; J. J. Herbert, Reading, 10; B. Wise, Reading, 10; T. Newman, Reading, 50. The Tellephone Company of Egypt (Limited).—Capital 100,000%, in shares of 5%. The subscribers (who take one share each) are—G. E. Gorman, Upper Norwood; W. G. Hall, Streatham Hill; J. S. Cooke, 5, Raymond Buildings; R. S. Cuff, Tottenham; J. Ryles, 26, Tavistock-street; H. A. Pentish, Clapham; L. J. Marten, 21, Cannon-street.

26. Tavistock-street; H. A. Pentish, Clapham; L. J. Marten, 21, Cannon-street.

THE CAMBRIAN PATENT FUEL COMPANY (Limited).—Capital 25,000L, in shares of 10l. To purchase or otherwise acquire the Cambrian Patent Fuel Works, situated near Cardiff, and to carry on the business of patent fuel makers in England or abroad. The subscribers (who take one share each) are—J. Hall, 1, New London-street; H. Langridge, 16, Great St. Helen's; W. W. Mann, 1, East India Avenue; J. Newton, 79, Mark-lane; W. Davies, Pontypridd; G. H. Noel, Cardiff; S. K. George, 1, East India Avenue.

THE ELECTRIC MOTOR SYNDICATE (Limited).—Capital 12,000l., in shares of 100l. To acquire, use, or otherwise deal with certain patents connected with electricity. The subscribers (who take one share each) are—J. Macdonald, 5, Southampton Buildings; A. Browne, 5, Southampton Buildings; J. Jones, 63, Grosvenor-road; W. C. Cross, Peckham; C. R. A. Derby, 48, Commercial-road: J. H. Slater, 58, Haverstock Hill; A. C. Kendrick, Shepherd's Bush.

THE MANGANESE BRONZE & BRASS

COMPANY (LIMITED),

SOLE MANUFACTURERS OF PARSONS' PATENT "MANGANESE BRONZE" AND PARSONS' WHITE BRASS

MANGANESE BRONZE.

MANGANESE BRONZE.

No 1.—In Ingots, Slabs, Forgings, Rolled Rods, Plates, Sheets, &c. Can be rolled and forged hot and rolled, drawn, and worked cold. Tensile strength—Annealed 30 tons, Cold Rolled and Drawn 40 to 50 tons per square inch.

No. 2.—In Ingots and Castings. Has double the strength of gun metal. Is suitable for Propellers and other simple massive Castings where the greatest strength is required.

No. 3.—In Ingots and Castings. For strong castings of all kinds. Is 50 per cent. stronger than gun metal, and can be cast with facility in any form.

In any form.

No. 4.—In Ingots and Castings. For all parts of Engines and Machines subjected to friction, especially such as work under heat.

No 5.—Special Bearing Metal. In Ingots and Castings. Wears three times as long as gun metal. For all kinds of Bearings lubricated either with grease or oil.

PARSONS' WHITE BRASS.

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$-\mathbf{R}$	oman Gravels	150	9	6	0	0./00.00	ditto
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$-\mathbf{E}$	ast Roman Gr	wels 15	8	14	0		ditto Adam Eyton. Runcorn Company. Walker, Parker, & Co.
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Jan. 25-Ti	alacre & Grons	nt100	£ 4	6	0		Vivian and Sons.
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In the Court of the Vice-Warden of the Stannaries,

In the MATTER of the COMPANIES ACT, 1862, and in the MATTER of the BREAGE UNITED TIN MINES COMPANY (LIMITED). Notice is hereby given, that a PETITION for the WINDING-UP of the ABOVE-NAMED COMPANY by the Court, was, on the 27th day of January inst., presented to the Vice-Warden of the Stannaries by John Edex and Edwin Edex, carrying on business as John Edey and Company, of Sheffield, in the County of York, and of 18, Queen Victoria-street, in the City of London, Chartered Accountants, claiming to be creditors of the said company, and that the said Petition is directed to be heard before thely Vice-Warden, at the Prince's Hall. in Truro, in the County of Cornwall, on Wednesday, the 21st day of February next, at Eleven o'clock in the forenoon.

Any contributory or creditor of the company may appear at the hearing and oppose the same, provided he has given at least two clear days' notice to the Petitioners, their solicitors, or their agents, of his intention to do so, such notice to be forthwith forwarded to R. M. FAUL, Esq., Secretary of the Vice-Warden, Truro.

Every much contributory or creditor is satisfied to account of the Detition of the County and the Patition of the County and the Pati

Truro.

Every such contributory or creditor is entitled to a copy of the Petition and affidavit verifying the same from the Petitioners, their solicitors, or their agents, within 24 hours after requiring the same, on payment of the regulated charge page (a) or their solicitors.

per folio.

Affidavits intended to be used at the hearing, in opposition to the petition, affidavits intended to be used at the hearing, in opposition to the petition, must be filed at the Registrar's Office, Truro, on or before the 19th day of February next, and notice thereof must, at the same time, be given to the Petitioners, their solicitors, or their agents.

HODGE, HOOKIN, AND MARRACK, Truro, Cornwall (Agents for Rogers and Chave, 3 and 4, Great Winchester-street Bulldings, London, Petitioners' Solicitors.)

Dated Truro, January 30, 1883.

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BY ORDER OF THE LIQUIDATOR.

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M. R. HERBERT H. FULLER is instructed TO SELL the house-yard, Lothbury, London, E.C., on Thursday, February 15th, at One o'clock precisely.

The leases, plant, &c., will first be offered in one lot, and in the event of their not being sold the plant and machinery will be offered alone.

Copies of inventory with full particulars and conditions of sale may be obtained from the liquidator, William Edwards, Esq., of Waterdale, Wolverhampton; or from the Auctioneer, I, Queen Victoria-street, London, E.C. BY ORDER OF THE LIQUIDATOR.

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Wednesday, the 14th day of March, 1833, at Twelve o'clock at noon, at the said Chambers, is appointed for hearing and adjudicating upon the debts or claims.

Dated this 20th day of January, 1883.

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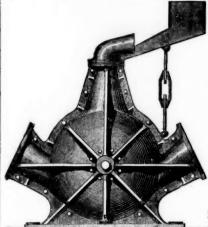
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